

293

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<210> 420

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<400> 420

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294

<210> 421
 <211> 951
 <212> DNA
 <213> Homo sapiens

<400> 421
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<210> 422
 <211> 673
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (76)
 <223> n equals a,t,g, or c

<400> 422
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295

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673

<210> 423

<211> 2073

<212> DNA

<213> Homo sapiens

<400> 423

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<210> 424

<211> 2609

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

296

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2585)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2609)

<223> n equals a,t,g, or c

<400> 424

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ccatactgcc tccatttaat gttagcctgt tttaaagctta gagctttcac agacaacaga 1860
gacgacatgg cattggggca tgtgattgtg ttgcttcagc aagagtggcc acggggcgag 1920
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297

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aatcttttcc tgaaagctgt caataaaatt tgccaacaag gaaatttcca atatgagaat 1980
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gaaggtggga aaattcatct ggaattacta cccaatcaag gaatgctgat caagcaccac 2100
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<210> 425

<211> 987

<212> DNA

<213> Homo sapiens

<400> 425

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agtgtatatt ctatgaaatg gaagaaacaa gaactagaca gagtcacaaa tgctgttgat 660
cacagacaat ctctgccatc cataaggtaa atgtaataca tctggcgacc tgctgagtgt 720
gaacttgcag caggtgagga aggaactctg aactctcaca atcttgtttc ttcatttccc 780
agagagaaac tcggcaaaga gaaaaaggac atttccctcc aggttatctg aaagaatttc 840
aatgcttacc tttaatcatg tgacattggt tatcttggtg taaaagaaaa gaaaatgtat 900
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<210> 426

<211> 1726

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

298

<400> 426

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gtccccccgc atgcatgggg atttctcccc agaccagcat acttgtgacc tgagagttca 180
atgygtaaag atgcccctgg tcagccatat ccatcttctc ttgectggtc cttgattctc 240
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aaatggtcca aggggaagt c aaaaaaaaaa aaaaaaaaaa aaaaaa 1726
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<210> 427

<211> 1528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 427

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cagggcagcc ggggaaggtc cagcagctgc acagcctgag aaactccttc aagctgcccc 480
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299

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ctcttcttaa aaaaaaaaaa aaaaaaaaaa 1528

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<210> 428

<211> 2055

<212> DNA

<213> Homo sapiens

<400> 428

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300

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<210> 429

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<400> 429

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gctgtccttg acattctgat gtggtgaaat ggtagcagc atggactttg gaaccagata 300
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<210> 430

<211> 2834

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2828)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2834)

301

<223> n equals a,t,g, or c

<400> 430

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gaagatagtt tacgaagaga aaagaacctg gaagaagcaa agaagattac cattaataat 420
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302

<210> 431
<211> 2709
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2677)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2691)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2699)
<223> n equals a,t,g, or c

<400> 431
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303

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<210> 432

<211> 739

<212> DNA

<213> Homo sapiens

<400> 432

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ggaggtcctg ggactccaag ttcagcgctc caggtctggg acagggcctg catgcagtca 660
ggctggcagt ggcgcggtac agggaggga ctggtgcata ttttagcctc aggaataaag 720
atgtgtctgc tcaaaaaaa 739

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<210> 433

<211> 853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (734)

304

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (767)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (833)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (851)

<223> n equals a,t,g, or c

<400> 433

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gcaaccacct nat 853

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<210> 434

<211> 1098

<212> DNA

<213> Homo sapiens

<400> 434

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catctacttc gtatgactat tgcagagtgc ccatggaaga cggggataag cgctgtaagc 180
ttctgctggg gataggaatt ctggtgctcc tgatcatcgt gattctgggg gtgcccttga 240
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agtgtcgcaa tgtcacccat ctctgcaac aagagctgac cgaggcccag aagggtttc 360

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305

```

aggatgtgga ggcccaggcc gccacctgca accacactgt gatggcccta atggcttccc 420
tggatgcaga gaaggcccaa ggacaaaaga aagtggagga gcttgaggga gagatcacta 480
cattaaacca taagcttcag gacgcgtctg cagagggtgga gcgactgaga agagaaaacc 540
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<210> 435

<211> 1178

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (917)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1176)

<223> n equals a,t,g, or c

<400> 435

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306

<210> 436
<211> 686
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<400> 436
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<210> 437
<211> 2588
<212> DNA
<213> Homo sapiens

<220>
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<222> (2481)
<223> n equals a,t,g, or c

<220>
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<222> (2505)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2544)
<223> n equals a,t,g, or c

<400> 437
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307

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<210> 438

<211> 3609

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

308

<222> (32)

<223> n equals a,t,g, or c

<400> 438

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309

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<210> 439

<211> 2643

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2633)

<223> n equals a,t,g, or c

<400> 439

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310

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<210> 440

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<400> 440

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<210> 441

<211> 2595

311

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2398)
<223> n equals a,t,g, or c

<400> 441
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agggaccagt gggaggaccg gatccagggtg tggcatgctg aacaccgtgg gatgctcaaa 180
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312

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<210> 442

<211> 1301

<212> DNA

<213> Homo sapiens

<400> 442

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<210> 443

<211> 689

<212> DNA

<213> Homo sapiens

313

<220>
 <221> misc feature
 <222> (678)
 <223> n equals a,t,g, or c

<400> 443
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 cgtgaggaac gcctcttaac acgccccgtg gcatggagtt tgacagggcc ctggatccct 180
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 gcaagagagc tcagcttnaa cctcacaac 689

<210> 444
 <211> 395
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (380)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (384)
 <223> n equals a,t,g, or c

<400> 444
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 tagttcatat cccacttctt tgtttacacc gatgtccctg aatatcagcc tgtagctaata 180
 ggacttgagg tttctggtct aagtgggcct cctgggggatg ggggtggtaca ctgagcttct 240
 gagcctcatt gtagagtaga aaggtactgg ggcctgtgtg gtaagccttg ttgaaatgct 300
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 aaaaaaaaaa aaaaaaaaaa ccnngggggg ggccc 395

<210> 445
 <211> 1558
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

314

<222> (420)

<223> n equals a,t,g, or c

<400> 445

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<210> 446

<211> 3085

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3077)

<223> n equals a,t,g, or c

<400> 446

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tacaaagctg aatgtcattt ctggtttgta gctttctgtc actcattcca tcttccttca 180
gacatcacca cgtttctcta aagtcagaaa acattccgtt ttgggtcttt tcaaaaagggt 240

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315

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cccaaatgct gcactctaca catgaaggcc ctctcacaca gacgtgacgt cctgccagaa 300
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ccacgcagca gtattggggg tgggtcgggg gaggggtgtt tcggattttc ttttttytt 420
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aaaaaacttt acaagnggcc aagat 3085

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<210> 447

<211> 1917

316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1915)

<223> n equals a,t,g, or c

<400> 447

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ccgtacagcc cagtccacga agggcgccac gggcgtgac gtcacctatg cccgacggcg 180
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ccaccagctg gtgggtgttt gtaatcgcca agcaccagct ataggtcaca gccacatcac 1860
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<210> 448

<211> 946

<212> DNA

<213> Homo sapiens

<400> 448

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ggcacgagcg gcacgagtcg gcacgagaac actgctatgg gcgttggtcc atgatcaaac 60
ggctggcatg actcatcata gtcacgaaca gttattagcc agccatggct gtggttgctt 120
gccttagcag tcctgtgtta gcattgcttt actctgggca catttttctt attctctatt 180

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317

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ctgggataga agtagtttct gacttctagc cacgttcagt ccaggctgga gagatctaca 240
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<210> 449

<211> 1190

<212> DNA

<213> Homo sapiens

<400> 449

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aataaagact attaatagaa aaaaaaaaaa aaaaaactcg agactagcct 1190

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<210> 450

<211> 915

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (915)

<223> n equals a,t,g, or c

318

<400> 450

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ggggacatta ttgcgcgtgg aacggctgct tttggaagac tattgccag aagaaaagat 180
gttttggttt cacaagccaa agatgtaccg aagtatagag ggctgctgta tttgcagagc 240
taagtcctcc agttctcgat tcaactgacag taaacgctat gaaaaggact tccagagctg 300
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<210> 451

<211> 1862

<212> DNA

<213> Homo sapiens

<400> 451

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atgttaagta ttgttccttg ttatgtaaaa ggggttgaag tgattctaatt ttgttttcaa 1560
ggtagtttta atagattgga agaataattg gccgcctcat cggctccctt ttcattttgt 1620

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319

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acagtatcaa ggtataggaa ttttactgta tttgactttt tttctctctc ttccagtgac 1680
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ttctgggttt taacaagctg tttgttcac tcatatttagt ttaaaatagg tagtattatc 1800
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aa 1862

```

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<210> 452
<211> 800
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature
<222> (756)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature
<222> (794)
<223> n equals a,t,g, or c

```

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<400> 452
gcttccagca ggaatgagtg ctaaaatgct gggaggtgtc tttaaaattg actggatttg 60
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accagtaaaag atcggacgtg atggacagga aattgaactt gaatgtggaa cccagctttg 180
tcttctgttt ccccccgatg aaagtattga cttgtatcag gtcattcata aaatgcgtca 240
caagagaaga atgcattctc agccccgatc acgaggacgt ccatcccgcg agaaccagtc 300
cgngawgkkg gaaggcgctg accagaagat tatgatattc ataacagcag aaagaaacca 360
aggattgact atccccctga gtttcaccag agaccagggt atttaaagga tccacgatac 420
caggaagtgg acagacgatt ttcaggagtt cgccgagatg tgttttttaa tgggtcctac 480
aatgattatg tgagggaatt tcataacatg ggaccaccac caccttggca aggaatgccc 540
ccttaccag gaatggaaca acctccacac catccttact atcagcacca tgctccacct 600
cctcaagctc atcccccttt acttcaggga catcatccag ttaccacatg gaagcaagggt 660
tacagagatw aaacggaggt acatggatta tgatwttgag ggggtgggatg gattttcctt 720
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aggaggaccc ggnnacgggg 800

```

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<210> 453
<211> 2106
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (2093)
<223> n equals a,t,g, or c

```

320

<220>
<221> misc feature
<222> (2094)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2096)
<223> n equals a,t,g, or c

<400> 453
gcgtccgctg atagctcgat gtgacggagt ctcggtattgc aaagacgggg aggacgagta 60
ccgctgtgtc cgggtgggtg gtcagaatgc cgtgctccag gtgttcacag ctgcttcgtg 120
gaagaccatg tgctccgatg actggaaggg tctactacgca aatgttgctt gtgcccaact 180
gggtttccca agctatgtga gttcagataa cctcagagtg agctcgctgg aggggcagtt 240
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agcctgcgtc cgatagaagg ggctacagct cagcgcctgt ggggtggaaac atgtccttgc 420
tctcgcagtg gccctggcag gccagccttc agttccaggg ctaccacctg tgcgggggct 480
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cacatgtggg gaggttaatc taggaatgac tcgtttaagg cctattttca tgatttcttt 1920
gtagcatttg gtgcttgacg tattattgtc ctttgattcc aaataatatg tttccttccc 1980
tcataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaaaaaa aaaaaaaaaa attataaaaa aaataaaaa aaaaaaaaaa aannanaaaa 2100
aaaaaa 2106

<210> 454
<211> 2288

321

<212> DNA

<213> Homo sapiens

<400> 454

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tgtgggccgt cctgagggtta gccctgcggc cgtgtgcccc cgctctctcc gccgggccgc 180
gcgccctatca cggggactcg gtggcctcgc tgggcaccca gccggacttg ggctctgccc 240
tctaccagga gaactacaag cagatgaaag cactagtaaa tcagctccat gaacgagtgg 300
agcatataaa actaggagggt ggtgagaaag cccgagcact tcacatatca agaggaaaac 360
tattgcccag agaaagaatt gacaatctca tagaccagg gtctccattt ctggaattat 420
cccagtttgc aggttaccag ttatatgaca atgaggagggt gccaggagggt ggcattatta 480
caggcatttg aagagtatca ggagtagaat gcatgattat tgccaatgat gccaccgtca 540
aaggagggtg ctactacca gtgactgtga aaaaacaatt acggggccaa gaaattgcc 600
tgcaaacagg ctcccctgca tctacttagt tgattcggga ggagcatact tacctcgaca 660
agcagatgtg tttccagatc gagaccactt tggccgtaca ttctataatc aggcaattat 720
gtcttctaaa aatattgcac agatcgcagt ggtcatgggc tctgcaccg caggaggagc 780
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ctgtgcattg tacttttcta ccttaaaaaa atcagtgagg atattttatt aatgaacatc 1980
aatccttttt aaattttctt agagaaatct ctctgtggct cagttttacc acccataaag 2040
cggagacagt aattttatgg atcctttctg acccaciaag tatgaaaagt tctgtaatct 2100
gtaaactcag ttctgtaatc tgtattattg agatgattaa tataaagttg tattttcact 2160
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
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aaaaaaaaaa
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<210> 455

<211> 2361

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

322

<222> (2256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2288)

<223> n equals a,t,g, or c

<400> 455

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ttctcatgta caactttggc tcaagcttgc gtacaagtac ttgaatcaaa atgagggggga 120
gtgctcagaa tccttggatt ctgctttaaa tgttctggcg cgagcattgg aaaataacaa 180
agacaatcca gaaatttggt gccattacct cagattgttc tcaaaaagag gaaccaagga 240
cgagggtgcag gaaatgtgtg aaacagctgt tgaatatgct ccagattatc aaagcttttg 300
gacttttcta cacctagaaa gtacctttga agaaaaggat tacgtatgtg agagaatgtt 360
ggagtttctg atgggagcag ccaagcagga aacatccaat attttgcct ttcagctttt 420
agaggctctt ttgtttagag ttcagctgca catatttact ggaagatgcc aaagtgcact 480
ggcaatttta cagaatgcat tgaaatctgc taatgatgga atagtagctg aataccttaa 540
aaccagtgat cgatgtttgg catggttggc ctacatacat cttattgaat tcaacattct 600
cccttcaaaa ttttatgac catctaata taatccttca agaattgtta acactgaatc 660
atttgaatg ccatggcaag ctgttcaaga tgtaaagact aatcctgaca tgttgtagc 720
agtttttgaa gatgcagtga aagcttgcac agatgagagc cttgctgttg aggaaagaat 780
agaggcctgc cttccacttt acacaaacat gattgctctg caccaactcc tggagaggta 840
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gctggaagcc cttgttgcac tatatttgca aacaaatcag catgacaaag ccagagcagt 960
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tatgtttaac caccaagttc cttattttgt gctgatttac tgcctttgtc atcctcttca 1260
atcaagtatt aaagaaacag tggaggcata tgaggcagca ttaggggttg ctatgagatg 1320
tgatatagta cagaagatat ggatggatta tcttgtcttt gcaaataata gagctgctgg 1380
atccagaaac aaagttcaag aattcaaatt ttttactgat ttagtgaata gatgtttggt 1440
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atttcataat agggttattt tcttttattt gagctgtgtt ccaaagacct agcattccaa 1560
aaccttgga cggttttgtt cagttatgcc agctaattct ggacttgcac tgaggttact 1620
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ctaaggctct tgtaaggcag acaagcggtt ttgatcatat caagttccct acaatatcct 2100
gtcctcaaaa ccggaagcaa tgaacatgat cctcttcggt tggataaatg aacttcctgt 2160
ttggcctgct tctaggccct gccagattct cataacatca tatacgtaag tatagttcct 2220
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323

caaagtgact gacattttatt ttaatttttgc ttgtnttttn ttawtttct cccccattcc 2280
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gggatttaat atccagggt g 2361

<210> 456

<211> 957

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

324

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<400> 456

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ntcnggncan cgnangcggc cccaatcggc acgagcggcc atggcgctcc tgctttcggg 120
gctgcgtgta ctgctgggcg gcttcttcgc gctcgtgggg ttggccaagc tctcggagga 180
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cccgtgaag gtatttggt accagccaga tcccctgaaa ctaccaaata gctgtgggct 300
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gtaacttggt cttgattctg ctcatgatgg gggctatctt caccttggca gctctgaaag 420
agtcactaag cacctgtatc ccagccattg tctgcctggg gttcctgctg ctgctgaatg 480
tcggccagct cttagcccag actaagaagg tggtcagacc cactaggaag aagactctaa 540
gtacattcaa ggaatcctgg aagtagagca tctctgtctc tttatgccat gcagctgtca 600
cagcaggaac atggtagaac acagagtcta tcatcttggt accagtataa tatccagggt 660
caaccagtgt tgaaagagac attttgtcta cctggcactg cttcctcttt ttagctttac 720
tactcttttg tgaggagtac atgttatgca tattaacatt cctcatgtca tatgaaaata 780
caaaataagc agaaaagaaa tttaaataca ccaaaattct gatgccccaa ataaccactt 840
ttaatgcctt ggtgtaagta tacctctgaa cttttttctg tgcttttaaa cagatatata 900
ttttttttaa atgaaaataa aaccatatat cctaaaaaaa aaaaaaaaaa aaaaaaa 957
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<210> 457

<211> 923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (886)

<223> n equals a,t,g, or c

<400> 457

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ctctcggccg cactcgcgct gtacggggccg ccaactggacg cagttttaga aagagcgttt 180
tcgctacgta aagcacattc gataaaggat atggaaaata ctttgcagct ggtgagaaat 240
```

325

```

atcatacctc ctctgtcttc cacaaagcac aaagggcaag atggaagaat aggcgtagtt 300
ggaggctgtc aggagtacac tggagcccca tatTTTgcag aatctcagct ctcaaagtgg 360
gcgagactt gtcccacgtg ttctgtgcca gtgcggccgc acctgtgatt aaggcctaca 420
gcccggagct gatcgtccac ccagttcttg acagcccca tgctgttcat gaggtggaga 480
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gccctatgga cagcgatgac agccatggat ctgtgctaag actcagccaa gccctgggca 780
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cctgggcgtc ctggtacact ggg                                     923

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<210> 458

<211> 3058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3045)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3053)

326

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3057)

<223> n equals a,t,g, or c

<400> 458

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taaatacact taatttcaca atacattggt atatgtaccc cagttgttgt tagtggggac 180
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ttaaaaaaat ctgtgcaata attttaaaat gtgctccag gaatagacac aaatgttttg 480
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catttgcata cagttattga ctttttccca gctgattaaa agatagtcaa gaaattctgc 660
aatatagctg ccaaaataga cagctacatt tttatgatat tgtcatcttt tctgttttyt 720
ttttcttttt tttcttttagc tattttactt aagcataata gccacaatag gacatataaa 780
agattataaa tacagagctt tattatcctg acgtcttggg tcttttaagt atatactttt 840
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caataagatt gtctctaatt tgagcagtaa catgattgca agagaccaag tttcacagct 1020
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attcctgatg atcaattgaa tccagtagtt tttctatgct atttgttgtt gtataagcta 1140
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ctaatagata ctagattgta ttgaattctg ttttaattat tctctaggta agtatgtttt 1440
aggattaaat acctttttaca gatactgaaa gtgcctcctt ttgtggtgta aaaaacaaat 1500
tatggtgcaa aaagtaatca ctagattgaa atacatgaag gtttttttgct ttttgacata 1560
cgaaaatgtc aagagaaagg ccaaagattt gtactttttc acttaciaag cactcctttt 1620
tcccttaaac ttttttctgt caaattagat ttaatgagag agtactattt ttaaggagct 1680
atctgtttat gtagaatgat tttgttaaga gtaatgtaaa ctattattga gtagaggcct 1740
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aaaaatgaca agttttacta gctaagtaga gaaataaatc tcaaatagcag cgctacaatt 1860
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ggatggtact tgcatatggt gaattactac tgttgacagt ttccgcagaa atcctatttc 1980
agtggacca cctgttggca tggcagcaaa tgccaacatt ttgtggaata gcagcaaatc 2040
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atcagcaggg atggaaggag ggtagggaag ttatgaatta ctccttccag tagtagctct 2160
gaagtgtcac atttaataac agtttttttt aaacatgatt ctagttaaat gtagaagaga 2220
gaagaaagag gaagtgttca cttttttaat acactgattt agaaatttga tgtcttatat 2280

```

327

```

cagtagttct gaggtattga tagcttgctt tatttctgcc tttacgttga cagtgttgaa 2340
gcagggtgaa taactagggc atatatTTTT ttttttttg taagctgttt catgatgttt 2400
tctttggaat ttccggataa gttcaggaaa acattctgca tgttgatatct agtctgatgt 2460
acttatccat ctcattacaa acaaaaacac acagactgca tttgtagctc tgtaatcctt 2520
gaatacggaa gtaaattttc ttctttcctg actttgacat tgtagctata ctgtttccat 2580
ttttgttttt acaaatcctt tgggtctaata tctgtgagcc tacctatagc actggattaa 2640
aatgtctgca tcatttcttt agttatccag ttaactttta aactgttgta aaagtgtaaa 2700
ccagcccatg acagggtttt gtacatgtta aagaacttca ttgttcagtt ttcatgatta 2760
ttgtgtaagg aagactgatg tagatgttct gtgctgtcct ggaccatgtt aattacactt 2820
acgacgtatt ttagttccac atcacaatga tttgtcccca gtgacccttt tatcctttct 2880
aggcacattt cttgttggtg ttgttggtgc agttccctct tgcattgtat tgctttgaca 2940
actgtaattt gaatcagatc tgaaagaggt ccagaataaa atatatTTTg atattaaaaa 3000
aaaaaaaaaa aaactcgagg gggggcccggt acccaatcgc ctgtnatgta tcntannc 3058

```

<210> 459

<211> 555

<212> DNA

<213> Homo sapiens

<400> 459

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aaactggaac aatgaaaccc aaacactttc accacacttt gggcttttga tttctcacar 60
rgggargtta accmaactyc caaagggtta ataccycaaa cmccttcccc ttgagtgtga 120
cycacattgt taggtgctga cctagacaga ratgaactga ggtccttggt ttgttttggt 180
catatacaaa ggtgctaatt aatagtattt cagatacttg aagaatgttg atgggtgctag 240
aagaatttga gaagaaatac tctgtatttg agttgtatcg tgtggtgtat tttttaaaaa 300
atttgattta gcattcatat ttccatctt attcccaatt aaaagtatgc agattatttg 360
cccaaagttg tctcttctt cagattcagc atttgttctt tgccagtctc attttcatct 420
tcttccatgg ttccacagaa gctttgtttc ttgggcaagc agaaaaatta aattgtacct 480
atTTTgtata tgtgagatgt ttaaataaat tgtgaaaaaa atgaaataaa gcatgtttgg 540
ttttccaaaa aaaaa

```

<210> 460

<211> 612

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (600)

<223> n equals a,t,g, or c

328

<220>
<221> misc feature
<222> (606)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (612)
<223> n equals a,t,g, or c

<400> 460
ggccactcag agtgggtgtc ttgtgtccgc ttctcgccca acagcagcaa ccctatcatc 60
gtctcctgtg gctgggacaa gctgggtcaag gtatggaacc tggctaactg caagctgaag 120
accaaccaca ttggccacac aggctatctg aacacggtga ctgtctctcc agatggatcc 180
ctctgtgctt ctggaggcaa ggatggccag gccatgttat gggatctcaa cgaaggcaaa 240
cacctttaca cgctagatgg tggggacatc atcaacgccc tgtgcttcag ccctaaccgc 300
tactggctgt gtgctgccac agggcccagc atcaagatct gggatttaga gggaaagatc 360
attgtagatg aactgaagca agaagttatc agtaccagca gcaaggcaga accaccccag 420
tgcacctccc tggcctggtc tgctgatggc cagactctgt ttgctggcta cacggacaac 480
ctggtgcatg ktggcagtga ccattggaca cgctagaagt tatggcagac ttacaaataa 540
aaaaaaaaactg gctttttgaa aaaaaaaaaa aaaggcgggc gtttaaagac caacntacnn 600
ccctgnttca an 612

<210> 461
<211> 882
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (852)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (877)
<223> n equals a,t,g, or c

<400> 461
tttctttctc cctttcttgg cctctctctg ctctctccca caccctgcag gcaaaacaag 60
gaagagatca tcaattatga aatttgaaaca ccaagggacc tgggtgtgcct gggcctgagc 120
agcatcggtg gcgtctggta cctgctgagg aagcactgga ttgccaacaa cctttttggc 180
ctggccttct cccttaatgg agtagagctc ctgcacctca acaatgtcag cactggctgc 240
atcctgctgg gcggactctt catctacgat gtcttctggg tatttggcac caatgtgatg 300
gtgacagtgg ccaagtcctt cgaggcacca ataaaattgg tgtttcccca ggatctgctg 360
gagaaaggcc tcgaagcaaa caactttgcc atgctgggac ttggagatgt cgtcattcca 420
gggatcttca ttgccttgct gctgcgcttt gacatcagct tgaagaagaa taccacacac 480
tactttctaca ccagctttgc agcctacatc ttcggcctgg gccttaccat cttcatcatg 540
cacatcttca agcatgctca gttatgagga gtcaaactct aaggatccag cggcagtgac 600
agaatccaaa gaggggaacag aggcatcagc atcgaagggg ctggagaaga aagagaaatg 660
atgcagctgg tgcccagagc tctcaggggc agaccagaca gatgggggct gggccacac 720

329

```

aggcgtgcac cggtagaggc acaggaggcc aaggcakctc caggacargg cagggggcag 780
caggatacct ccagccaggc ctctgtggcc tctgttttcc ttctcccttt cttggccctc 840
ctctgtcctc cnccacaccc tgcaggcaaa agaaaaanccc ca 882

```

```

<210> 462
<211> 733
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (640)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (677)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (687)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (711)
<223> n equals a,t,g, or c

```

```

<400> 462
tccccatggt tctcctacct aaatgattgg ttccctatg gctatttctc caagagttaa 60
gggatatgctg cttaactatg cacctttaca gaacattctt agcagtaatg ctcaaattta 120
aaaggcacac tcaagatact tccatgtcat ggatccttcc ccagggtcca gtartataaa 180
tataggggaag aggttagcat gaacttacwa attgttttaa gtaatcctct tgaatgccag 240
tcattaaagg actttgccc tctacatcaa attacatcct ttccacaaat ccccatctct 300
gtaataactg gtgcaaacct aaagggtgctt tatagtttta ctactttgca gatttgcaat 360
gctgcatata atgcagaaga gcattaaaaa cttttgtaaa aactcatgat ttgataaac 420
ttttaaagta gcgtttatat gtaaatagaa ctacacatgg gcacacacac ttgcacargg 480
gcttcagaaa aacgtgcaat atagggtgagg aaaaatgtct attgaaactt tctcacaggc 540
tgcccttatt aattaaaact agtggtgggg gcaagcaaca tctgtttcca agtaggttca 600
ggggactagg caaaccttaa agggcggcag gcggcctgcn gtttgcttca ttccttaggn 660
ttactgggtt cctacanctg gttttanttg tcttaggtgt ggactttgga nggtacagt 720
tttgtggctt ttt 733

```

```

<210> 463
<211> 574

```

330

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (18)
 <223> n equals a,t,g, or c

<400> 463
 ntctcaatta aacaaaaanaa aaaagtggag aactggcagt gacctctact gggggccatg 60
 gcagggaggg gagccttctg gaagggctgc cttggagatt ggaatgggga ctcccaggga 120
 gacctgcgtt ccattccctgc ctgcctcacc cctgccacag actctgcaca ccactggatg 180
 gtgggtccaa gcctggcaca gtccctgtgc ttgtcagagt cattattatg attaatatca 240
 attacgatgc caaaaattgc tgggcaaaact ttgaagacct caacttgta caatgacgat 300
 gatgatgatt cttggcgggt acacaatcct tcctcctggg ggggaggcag ctaggaggcc 360
 cagcaggggg gcttctatgc tgctgggctc ccctaggagg ttggggtagt ctgtgccaac 420
 tccaggcagc tgctgtggcc tcacccctgg gcccccaat tttgggtcat ccctcctcaa 480
 atacactatt tttgcttgta tgctgtgtc atttgttggg tgtacagagg ggatataggg 540
 agagtggtag gcttcccaca cagaaactag gaca 574

<210> 464
 <211> 691
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (9)
 <223> n equals a,t,g, or c

<400> 464
 gtacnngnant cccgggtcga cccacgcgtc cgcggaaggt ccttctgaat cccttccctg 60
 ttccttaggt tgcactagtc ggggggtcca tgctgggggg cagaaggaat gctctctacc 120
 gtctgaaacc gttcatcagg aaggccttga tttgtgatgt gctaggagag cacaggatct 180
 gcaaatagaa ggcacctgtc tcccttctgc aggccgagga gaggccgcca tggactgtgt 240
 gcttcttcat ggcttggtta ctcttcttct acagacccta cagcttgggg cctgggctcc 300

331

```

tctgaccatc ctcattgaga aaggaaagtg agtccagaga agttgatgct tcctacctgt 360
tggagcggcc cagcagtgtg agcgtggttg ttactgcccc atccgccatg tccttcagtg 420
ccaccattct cttctccctt cccagtggca gcgaggccag atgctgctgc tgcgcctgta 480
agagtgagac taatggaggc aacacaggct cccagggtgg gaatcctcct cccagcacc 540
ccatcacagt gactggacat ggcttggctg ttcagagctc agagcagctc ctgcatgtta 600
tctaccagcg ggctcgataag gcagtgggtt tggctgaagc tgctctgggt cttgccaggg 660
ccaacaatga gttgttaaaa cgtcttcagg g 691

```

```

<210> 465
<211> 260
<212> DNA
<213> Homo sapiens

```

```

<400> 465
atgagtcaca tttattgatt tgcattwtgtt gaatcaacct tgcattcctgg ggacaaagcc 60
aactccattg ttgcratga actttttaat rtgctgctgg atttggcttg ccagtatttt 120
attgaggatt tttgcacagt gttttacaaa gacattggca tgatgtgttg ttgttgttgt 180
tggttgttga gtatctatga taggttttgg tatctggatg atgctggcct gataggaatg 240
agttagagag aacttcctta 260

```

```

<210> 466
<211> 851
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (727)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (755)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (793)
<223> n equals a,t,g, or c

```

```

<220>

```

332

<221> misc feature

<222> (825)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (842)

<223> n equals a,t,g, or c

<400> 466

```

gcgttcgcgt ggggtcccgcc cccacactcc gccagaggg gcctcagctt ttccaccact 60
gcttttctagt cctttaactc ctagaggcaa acttttgggg gataagaaag cctgggaggg 120
gcctgtgccaa aaaccctctc tgcttgggga ctgggcggtg attccgcttc tgcttgggct 180
cctgccatgg ccccgagag gggctgacac tttagctccc ggtgcaggtg agaaccgcc 240
cggaggaaga aggaaggcgc gggccgggga ttaggagacg gaggcggact cggagccagg 300
gaaccagggg tccgggctag agctggagtc gtgagcgcg gcgcgccccg ctctgggagg 360
accgcgagat gcccggtgtg aagcagctgg gcccgcgca gcccaagaag cggcctgac 420
gcggcgccct gtccatctcc gcgcgctcg gcgacttccg gcacacgctg cacgtggggc 480
gcggcgcgga cgccttcggg gacacctcgt tctgagccg ccacggcggc gggccgcccc 540
cgagccccgg gcgcccccg cgggggcccc gkctccccg ccgncgccc cgtccgcagt 600
ccgcagcgcc tcgcctgcga cccgctgtgc cttcacctgg atctggggcc tcatgctgga 660
cgcggtgctg gcgtatggac gcggcgcgcc gaagcggtg cgcaagccac gcgaaccgc 720
ccggacnagc cccagccgtg cgccacgcga ctcantacac natggcttag tctatccggc 780
tccgccgacc atntgtctaa cgcagggggc gaaaaaaaaa aactngggcc gaccatcgct 840
tnggcacat t 851

```

<210> 467

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<400> 467

```

ggcgagacc ccgatcccg ctgcgggtca ctagtgtctc agaccagaat gacagagtgg 60
ttgagtgcc gctacagacc cataacagca agatggtgac cttccgattt gatctggatg 120
gggacagccc ggaagagatt gcagctgcc tggatatataa cgagttcatt ctgccttcgg 180
agcgagatgg atttctcaga cggattcggg agattatcca gcgagtggag accctgttga 240
agagagacac tggccccatg gaggtgtgtg aagacacct aagccccag gaggagccag 300
caccattacc tgccctgccc gtccccctcc cagaccatc caatgaagag ctccagagca 360
gcacctccct ggagcacagg agctggacag cttctccac ctccctcatt ctttcttcc 420
gggaactcct ttgtctctg ggaaacccat tttccctgg aacccccatt ttccccagg 480
tcccatkttt ccccatcnat ttt 503

```

<210> 468

<211> 1905

<212> DNA

<213> Homo sapiens

333

<220>
 <221> misc feature
 <222> (933)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (940)
 <223> n equals a,t,g, or c

<400> 468

ggcacaggac	cagtggagt	agctgttcat	ggatgcgcta	gggcccttca	acttcgtgct	60
ggtgagttcg	gtgaggatgc	aggggtgtcat	cctgctgctg	ttcgccaagt	actaccacct	120
gcccttcctg	cgagacgtgc	agaccgactg	cacgcgcact	ggcctgggcg	gctactgggg	180
taacaagggt	ggcgtgagcg	tgcgcctggc	ggccttcggg	cacatgctct	gcttcctgaa	240
ctgccacttg	cctgcgcata	tggacaaggc	ggagcagcgc	aaagacaact	tccagaccat	300
cctcagcctc	cagcagttcc	aagggccggg	cgcacagggc	atcctggatc	atgacctcgt	360
gttctgggtc	ggggacctga	acttcgcgat	tgagagctat	gacctgcact	ttgtcaagtt	420
tgccatcgac	agtgaccagc	tccatcagct	ctgggagaag	gaccagctca	acatggccaa	480
gaacacctgg	cccattctga	agggctttca	ggagggggccc	ctcaacttcg	ctcccacctt	540
caagtttgat	gtgggtacca	acaaatacga	taccagtgcc	aagaaacgga	agccagcttg	600
gacagaccgt	atcctatgga	aggtcaaggc	tccaggtggg	ggtcccagcc	cctcaggacg	660
gaagagccac	cgactccagg	tgacgcagca	cagctaccgc	agccacatgg	aatacacagt	720
cagcgaccac	aagcctgtgg	ytgcccagtt	cctcctgcag	tttgcccttc	agggacgaca	780
tgccactggt	gcggctggag	gtgggcagat	gagtggggtg	ggcccagaca	ggcgggtggtg	840
aggttaccgc	wtggaaacak	tkttcgscgg	cagytccctg	gactggatcg	gcttataaccg	900
ggtgggtttc	cgccattgca	aggactatgt	ggnttatgt	tgggccaaac	atgaagatgt	960
ggatgggaat	acataccagg	taacattcag	tgaggaatca	ctgcccagg	gccatggara	1020
cytcwtcctg	ggctacyata	gtcacaacca	cagcatcctc	atcggcata	ctgaaccctt	1080
ccagatctcg	ctgccttcct	cggagttagc	cagcagcagc	acagacagct	caggcaccag	1140
ctcagaggga	gaggatgaca	gcacactgga	gctccttgca	cccaagtccc	gcagccccag	1200
tcctggcaag	tccaagcgac	accgcagccg	cagcccggga	ctggccagggt	tccctgggct	1260
tgccctacgg	ccctcatccc	gtgaacgcgg	tggtgccagc	cgtagccctt	caccccagag	1320
ccgcccctg	tcccagatgg	ctcctgacag	gagcagtaat	ggcagcagcc	ggggcagtag	1380
tgaagagggg	ccctctgggt	tgcctggccc	ctgggccttc	ccaccagctg	tgcctcgaag	1440
cctgggcctg	ttgcccgcct	tgcgcctaga	gactgtagac	cctgggtggtg	gtggctcctg	1500
gggacctgat	cgggaggccc	tggcgcccaa	cagcctgtct	cctagtcccc	agggccatcg	1560
ggggctggag	gaagggggcc	tggggccctg	aggggtgggt	aggcagatgg	gccaaggtga	1620
ccaccattct	gcctcaatct	tttgcaagcc	cacctgcctc	tctcctgctg	ctcctccagc	1680
tgtatctgca	cctgcctctc	tgctcctggc	aggggtggac	aactgggggtc	ccccaaaact	1740
cagtctggc	acctcaactg	tgacaatcag	caaagcccca	cccaggcccc	catctgggat	1800
gatgggagag	ctctggcaga	tgteccaatc	ctggagggtca	tccattagga	attaaattct	1860
ccagcctcaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaa		1905

<210> 469
 <211> 775
 <212> DNA
 <213> Homo sapiens

<400> 469

334

```

ggaagaaagt acactaacac ttctaggagc ctcttctcag aattgtagtt attccaaaat 60
agcaaatagt tggcataaag ggaaggatta tgtcagcaaa acctttttta aaatccttat 120
ttgattaatg atggtaaaaa ctaaaaaaaa acagagtttt ctattaaaat agcctatggc 180
cttggetaag acagctatcc tagtaagatt atcttatttt ctatttatag acacatccac 240
tyaaactgca tttttatcca gcgttgatct tcacactcac tgttcctatc aactcatgtt 300
gccagaggcc attgccattg tttgctcacc aaagcataaa gacactggca tcttcaggct 360
caccaatgct ggcattgctg aggtttctgc ttgtaaaaaa aagggtcttc atccacacac 420
caaggagccc aggtctgtca gtatatgcaa acatgtgttg gtaaaagaca taaaaataat 480
tgtgttggat ctgaggtgat atgttctgaa tgtaagcacc gtcaacatca gacacctact 540
catggacatg tggttgccgg attttcttaa gatgtttcca gaaatgactg atattttata 600
tttatacatt ttagatgaca aagcttgata tttattgctg ttgcacattt taaagttttc 660
tttttgggtt gctctgtgtc aagagagggt acatggtgtt aaatcgggtac ctgataatgt 720
acccaaatac tatggccaga taataaattg tgctgcaaam aaaaaaaaaa aaaaa 775

```

<210> 470

<211> 1297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<400> 470

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tccgnaattc ccgggtcgac ccacngtcc naatcaagct ctaagtcttt ggaccctctg 60
tggaacatt tctaaccga attttaattt ggcttttca accaaaggct tagagtggta 120
gcaagggatt tcttccaata ggaaacctga tgtttctgat ttaaagagaa ggtgatattt 180
taattgtttg aattaagctc cttgcaaagt tcgggtgtgt ttaccactt agggctttct 240
ttccagtcac acgctaacac attttgtaa atgatccctt tccctgctca cattgtgtgt 300
catttctcat catcagtagt cctccagcct gggcagctgt cccaccctt tttcatgtag 360
gtgcaggaag taaatctca tttccaggat gcatgtgaac atttacaag ttgaactttg 420
agtgcattct gtcatatga attattggga ttgttgatat atattgtatt atgtaccaa 480
agaaatattg gttttattag aaggaaatgg tcatcctctg gaccatggag actagctcag 540
aatacgtgca tttccctctc ctgactttgc caagcctttg gctgcttttg cctgataaag 600
ggcagggcca tctgaagaca cttcccccag tcggcttttg agtcacggga gctagtgcct 660
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ttttagata aaattctcca ttcaaacatt ttaaaggact ttgaacatta tctgcttatg 840
gaagtgtgtc ctttcaactg gttagtaacc acctcagcca taatacttac catcataggt 900
ttcttaaaat gctttttttt tttccctaaa cttgagtttc cttagtgtt tcaaaatgaa 960

```

335

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gtataagaat atcagatcca gtttagcaaaa gcctaggact tgtttctcca aacattgtac 1020
taacattcaa cttgttttaa aattatgact caagaatttt aaaaaattat tctggacatg 1080
aattaaaact tttttataat ataagtattt ttctgattga aaaaaggata taattgactt 1140
cactctaatt gtcattgata tttccataag taaatggatt ttgaagtatt tttatttttt 1200
gaactttatt taaagcattt gtgatgacat gttcaacttt tgcattgatg tagcctttga 1260
agtaaaaata aataggaatg ttaggctcac gttaaaa 1297

```

<210> 471

<211> 2155

<212> DNA

<213> Homo sapiens

<400> 471

```

aatatagtaa tttttaaatt tgtaataat gaaaaccctt aagcatgcag gatgaggtat 60
ttgggttttt tttttagatc gatcacatct acagaaaatg gctaaaccaa gtttaactttt 120
attatagaca gtgaataaaa caccaaaaac ccaaaaatgc tttaaccaca gtataaataa 180
tagattatac acatcatctt aataactatt ttttaagttat ttaccatagc ctctgtatag 240
accttaggaa cagtgtttca gtgatctggc accagtttat tttgttctgc tgaaattctg 300
tatcacaaat gtgctacctg gtttttgtcc attagataat tactctttat aaggaaagga 360
aagagaagca gagttagttc cagctctaatt agggatcttc aaagttattt tgtcttgatg 420
tatgtaacag taattcttta catcttttga tttttctctt cttttttatt cactcttccc 480
acgaatttaa atgtttaagt tatattcatc actagcaagg atgrtaaaca cttgtgcact 540
gaaagctaac agggagaggg tacacaatat tttacagktt cttaaacata atttartgca 600
tcaccttcca cttgctaaca taccaagtca gttattttca agggaagaac cttttaaatt 660
atggctctcc atttactact tccactgaga gtatgctctc attcctcagg tgttttgaga 720
aacatgacta ataaccacac aattaagtag agtcattcca agtcctatgg cctggaaatt 780
gtattcccta taatatacaa attttcctgt aataaagtca acttagaaac tccaaggagg 840
ttacatgttt tccaacatat cctaaaaact gtgatataag ctaacatata atttgcctta 900
cgtcaaaaga atatgttttg ttgcagctga ttccagttta taatagatcc ctagtaaaaa 960
gctttgatcc aacacaattg ttcatcttca catcccaaac agaatcactg tttcttgaat 1020
atatattttt gaagtttttt tgtgcaatat attactaaat cagttattat tttacttttc 1080
caaattcaga gaaagaaaac agattacctg aattcatgga aaagggtggat cacctccctt 1140
tttccacctt caagcctttc ctgtcctcat agccagcatg acttctttta acttggattc 1200
ctttgtatat agtaaagttt agtatatata ttttttttct tttttgctac tttctgagge 1260
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tggtttacat atatcttaca ggtgtttttt tgtatttttt ttttttttta gtttgaaatg 1560
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tctcagttgc caatctttgc tcatattaaa aacaacttac aaatacttag tttttgtatc 2040
taatctctga ttattaaaat gtttataaag tttattttta ccaaagagat gcaattcatt 2100
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```

<210> 472

336

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (447)

<223> n equals a,t,g, or c

<400> 472

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gcgagatgc agctcaagg gaagaaaggt ggtgcggggc tgcggggcggg acagaggggg 60
ccggtaaactt gtggagggggc ggcctgacaa aggcggggcg cggagggacc gtgcgaggag 120
cagtgattga wctgccgtcc aatcccagct ctgccgctga ctagttttga aacctgtaga 180
aaggctccgt gtctgcttta attaccggtc cccccaggat tgtttcaaga attcagtagc 240
tgaggctggg agtggtggct ttgtaatccc agcgctttgg gaggcctggg cgggaggatc 300
gcttgagccc gagaccggcc tgggtgacat ggtgagatct cgtctctaga ggaatgcaaa 360
ggttggcncg ggcgtggtgg cgcacgcctg tgggtccggc tgcttgggcg gctggngtgg 420
gaggattgct tgaccnnga ggtcaanggc tgcaactgca 459

```

<210> 473

<211> 710

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<400> 473

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cctcgtcata ttctaagata tccctaagaa attcttcaaa agtaacggaa tcagcatctg 60
tgatncaatc ccaggatgtg agtgggtctg aagatacatt cccaaataaa cgacctaggc 120
tagaagataa gactgttttt gacaattttt ttatcaagaa agagcaaata aaaagcagtg 180
gtaatgatcc aaagtatagt acaaccacag ctcaagaattc cagcagttca tccagtcaga 240
gcaaaatggg taattgccca gtttgtcaga atgaagttct ggagtctcag attaattgagc 300
acttgggactg gtgccttgaa ggtgacagca tcaaagtcma aagcgargaa agtctttgaa 360

```


337

```

aaaggttttca aagtctcaag taccacctgt attatctcac taatgtgcta tgtcagccag 420
tcaggaagtt ctggttaata ctaagatttg taggttataa tctagttcac ataaccaata 480
gaaagtgtcc tattttatat atacgcataa aagattgtaa ttttaagatg ttttgtgtct 540
cagggtgcta cattcactct tgccttaggt atactgtaac ccaggttctg cctgtcgtgt 600
ataattttta gatacttttkg ttctttcttg ctcttaagga ttttaaaaac ctgktaatct 660
ttttatttgt atacttttct aaaaatattc atatggggaa tcctgtcaaa 710

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<210> 474

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 474

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gcccacgcgt ccgccgcaag ccaacagggg tgtcgtgcgg tgggagtact tccgcctgcg 60
tcctctgcgg ttcagggccc ctgcactgag gctgcagaag tcccagtcac ctgactctgt 120
ggaaagggag agggagagtg tcctgcgccg ggagcaagag gtkscagagg agcggagaaa 180
tgctctcttc ccagaggtct tctccccaac gccagatgag aactctgacc agaactccag 240
gagctcctcc caggcatccg gcatcacggg cagtactcg gtgtctgagt ctcccttctt 300
cagccccatc cacctacact caaacgtggc gtggacagtg gaagatycag tggacagtgc 360
tcctcccggg cagagaaaaga aggagcaatg gtacgctggc atcaaccctt cggacggtat 420
caactcagag gtccctggaag ccatacgggt gaccctgcac aagaacgcca tggcagagcg 480
ctgggaatcc cgcactctac ccagtggagg ggatgactga gcctcgggat ggggcgcccc 540
ccccctgccc tgccctgacc ctctgtggga ctgccaagac catcgccaag cccccacct 600
aggaaatggg tcctaggtcc aggatccaag aaccacagct catctgcca caatcccacc 660
atgggcacat ttgggactgt tgggtttttc gtttccgttt ctatcttct ttagaaatgt 720
ttctgccttt ggggtctaaa gcttttgggg atgaaatggg acccctgctg attctttctg 780
cttctaagac tttgccaaat gccctgggtc taagaaagaa agagaccgc tcctccactt 840
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agatcgcagc accttgaggg gctgcgggtc tgaggaggga gacactcagc tcctccctct 960
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ccttggtgca cccagccaca cctggtggac acaaagctct cacatcgata ggatcccatg 1140
aggatggtcc ccttcacctg ggagaaaagt gaccagttt aggagctgga ggggggtctt 1200
tgtccccac ccccaaactg ccctgaaata aacctggagt gagctgcca aaaaaaaaaa 1260
aaaaaaaaa aaaaaaaaaa 1279

```

<210> 475

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

338

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<400> 475
tgactcgcag tggagtcagt caacaaccca ggtctcctgg ctcttaagac gtttcctttt 60
taatattata ggaatgggaa tgctggctcc ttttacagta ctgggccctt tacactgtac 120
tgcatactcg ttttttcagt ggatatatga gcttcttgctc aaaattatgt ggggtcccatg 180
aagaaacatc taaccagggg aaggggggaag gattgagaca taagacgtac ttatataaga 240
tttcttttaa gaattccaat cttggacatg ttaaattttt ttatatatttc tcatgtttaa 300
atctcagttc gtttttcatt ctgtgctcag cacgtaagtg tggggaaatg gacnaagggg 360
gctgcgggaa ngaccgctgg ctgggctcaa catgcctgtg ctttttcccc ttcattgtgtt 420
cttgtgtctg atgcattctt aacacagaat gacattttac tgtttttcan aaaanaacct 480

<210> 476
<211> 947
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<400> 476
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tcggggaaat ccaccgtggg cgccctgctg gcatctgagc tgggatggaa attctatgat 120
gctgatgatt atcaccggga ggaaaatcga aggaagatgg gaaaaggcat accgctcaat 180
gaccaggacc ggattccatg gctctgtaac ttgcatgaca ttttactaag agatgtagcc 240
tcgggacagc gtgtggttct agcctgttca gccctgaaga aaacgtacag agacatatta 300
acacaaggaa aagatggtgt agctctgaag tgtgaggagt cgggaaagga agcaaagcag 360
gctgagatgc agctcctggg ggtccatctg agcgggctgt ttgaggatcat ctctggacgc 420
ttactcaaaa gagagggaca ttttatgccc cctgaattat tgcagtecca gtttgagact 480
ctggagcccc cagcagctcc agaaaacttt atccaaataa gtgtggacaa aaatgtttca 540
gagataattg ctacaattat ggaaacccta aaaatgaaat gacaatgatt ttgtatcagt 600
ggtccaaaca gaactaagca taaatcattg tgccatccca aacctcgttc cagccgcctt 660
gccatacta gattctaaat gtttctaaag gcaaacccca atgtgtcaag acagacttgt 720
ttaggtgtaa ttttaggaat tatgctgggt catcaggaag cagaggggga gttttaaaag 780
tcaagcttaa attgaagttt aaattcatct ataaccaaat caaatgatca gaggaaattc 840
tgtaatcaat gctggaaatc gttacattgt ttagaacatt cttgctcatg cctgtatttg 900
cacaaataaa tgaaacttcg ctgtcaaaaa aaaaaaaaaa aaaaaaa 947

<210> 477
<211> 585
<212> DNA

339

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 477

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accaggacca cggggcctgg ctgcgcggcg gggatgtgtg gctggacagc tgccggtttg 60
ctgacaatgg cattggcctg accctggcca gtggtggaac cttcccgtat gacgacggct 120
ccaagcaaga gataaagaac agcttggtttg ttggcgagag tggcaacgtg gggacggaaa 180
tgatggacaa taggatctgg ggccctggcg gcttggacca tagcggaagg accctcccta 240
taggccagaa ttttccaatt agaggaattc agttatatga tggcccatc aacatccaaa 300
actgcacttt ccgaaagttt gtggccctgg agggccggca caccagcgcc ctggccttcc 360
gcctgaataa tgcttggcag agctgcccc ataacaacgt gaccggcatt gcctttgagg 420
acgttccgat tacttccaga gtgttcttcg gagarcctgg gccctgggtc aaccagctgg 480
acatggatgg ggataagaca tctgtgttcc atgacgtcga cggctccgtg tccgagtacc 540
ctggctncta cctacgaaga atgacaactg gctggtccgg cacc 585

```

<210> 478

<211> 3470

<212> DNA

<213> Homo sapiens

<400> 478

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aattcggcac gagaaggatc ggggcccctcg ccgctctgtc tcattccctc gcgctctctc 60
gggcaacatg gcgggtgtgg aggaggtagc ggccctccggg agccacctga atggcgacct 120
ggatccagac gacagggaag aaggagctgc ctctacggct gaggaagcag ccaagaaaaa 180
aagacgaaag aagaagaaga gcaaagggcc ttctgcagca ggggaacagg aacctgataa 240
agaatcagga gcctcagtgg atgaagtagc aagacagttg gaaagatcag cattggaaga 300
taaagaaaga gatgaagatg atgaagatgg agatggcgat ggagatggag caactggaaa 360
gaagaagaaa aagaagaaga agaagagagg accaaaagt tcaaacagacc ctccctcagt 420
tccaatatgt gacctgtatc ctaatggtgt atttcccaa ggacaagaat gcgaataccc 480
acccacacaa gatgggcgaa cagctgcttg gagaactaca agtgaagaaa agaaagcatt 540
agatcaggca agtgaagaga tttggaatga ttttcgagaa gctgcagaag cacatcgaca 600
agttagaaaa tacgtaatga gctggatcaa gcctgggatg acaatgatag aaatctgtga 660
aaagtggaa gactgttcac gcaagttaat aaaagagaat ggattaaatg caggcctggc 720
atttctact ggatgttctc tcaataattg tgctgcccat tatactcca atgccggtga 780
cacaacagta ttacagtatg atgacatctg taaaatagac tttggaacac atataagtgg 840
taggattatt gactgtgctt ttactgtcac ttttaatccc aaatatgata cgttattaaa 900
agctgtaaaa gatgctacta acactggaat aaagtgtgct ggaattgatg ttcgtctgtg 960
tgatgttggt gaggccatcc aagaagttaa ggagtcctat gaagttgaaa tagatgggaa 1020
gacatatcaa gtgaaaccaa tccgtaatct aaatggacat tcaattgggc aatatagaat 1080
acatgctgga aaaacagtgc cgattgtgaa aggaggggag gcaacaagaa tggaggaagg 1140
agaagtatat gcaattgaaa cctttggtag tacaggaaaa ggtgttggtc atgatgatat 1200
ggaatgttca cattacatga aaaattttga tgttggacat gtgccaataa ggcttccaag 1260
aacaaaacac ttgttaaattg tcatcaatga aaactttgga acccttgcc tctgccgcag 1320
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gggcattgta gatccatata caccattatg tgacattaaa ggatcatata cagcgcaatt 1440
tgaacatacc atcctgttgc gtccaacatg taaagaagtt gtcagcagag gagatgacta 1500
ttaaacttag tccaaagcca cctcaacacc tttattttct gagctttgtt ggaaaacatg 1560

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340

```

ataccagaat taatttgcca catgttgtct gttttaacag tggacccatg taatactttt 1620
atccatgttt aaaaaagaag gaatttggac aaaggcaaac cgtctaattgt aattaaccaa 1680
cgaaaaagct ttccggactt ttaaattgcta actgtttttc cccttcctgt ctaggaaaat 1740
gctataaagc tcaaattagt taggaatgac ttatacgttt tgttttgaat acctaagaga 1800
tacttttttg atattttatat tgccatattc ttacttgaat gctttgaatg actacatcca 1860
gttctgcacc tataccctct ggtgttgctt tttaaccttc ctggaatcca ttttctaaaa 1920
aataaagaca ttttcagatc tgagagctac atctcaatgt ctgtgggttat aattctggac 1980
aggataaata gctaaactta atgtaggcaa atgcagagac atttatctga aatgtagacc 2040
tctacactga gactttttctg gcatagtggc taaaacaaga tctacacatg cataaaaagg 2100
gacaatcacc ttttcttcat aaatatacag ctttaggaat atttcaccat tctttgtagg 2160
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gttcatgcct ggacatactg tcagggctgg gccctccagc tagctccttt ggggttgagt 3060
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tagaattgac ctttatgagt gaagactttt ggagctttta aagaccttg cagtcatgat 3180
ctcaaaccaa ttaggagctc caagctccct tcccaggtaa ctggtgggag caatggcatc 3240
actgtatgcc cttgtaatgg ctggaaggga catgatcttg taagtaggaa agctgtaact 3300
aaaaattgta ttgtttgctt attagccatg tatctcttaa aattttgtta tgtttacaac 3360
gatgtacctt attggcaaca agttattagt ttgatgttta acaatagtgc ctttagtaaa 3420
ttattttaca actaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3470

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<210> 479

<211> 637

<212> DNA

<213> Homo sapiens

<400> 479

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acgccttggc catcgtgaa aagtctcagg agttcttggg agcagataat cgccagctgc 60
ccaatggtgt ttacacaact gcagagcagc gtccgaatgc ctacatccca gaagcagatg 120
ccactcttcc tttgccaaaa ccttatgggtg ctttgggtcc ttttaaacc agtgaacctg 180
gagccaatat gaggcacata aggaaacctg ttataaagcc agttgaaatc tgaatatgtg 240
aacaaatcca ggcctctcaa ggaaaagact tcaaccaggc ttccttgtag ccacagggtg 300
aaaatgtgag cataatactt ctaatatatt tgataagtaa ggtaaccaca attagtcagc 360
aacagagtac aacagggttt ctatttacc accaactact atacctttca tgacgttgaa 420
tgggacatag aactgtccta catttatgtc aaagtatata tttgaatygc ttatattttc 480
tttttctact ttatatattg gtacattcca gaaatttgta gtaggcaagg tgctataaaa 540
atgcactaaa aataaatctg ttctcaatga agtacggaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cggccgc 637

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341

<210> 480
 <211> 1889
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (26)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (57)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1295)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1370)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1844)
 <223> n equals a,t,g, or c

<400> 480
 aactaagtgg atcccccggg cacatnatgt tgatactgtt cgccatagcg ttgctgntgt 60
 gtctgggcca actgacgtgc cagttcatcc tgctgcatcg catcgatttc atcatcgttg 120
 tactgatcgc cagaatcgta ctgattgcgc tgggcttcac gggctttttc ttccgccgca 180
 cgctgtgagg gcagcttaat accgtaagac gccagttcac gacgagttgg cacgcggata 240
 cgtttcggtc gtggcaactg cggaccaatc ccctctttga cctgaggacg cgggtccaccg 300
 ctatttgcca gactgaagac tggcgcgcca acggttgccg cagccccgtc gccagtgtcg 360
 cttttttcac gccagatgcc agcggggaaa cagcggcagc ggcttctact ggaggtactg 420
 ctgcaacaga aggtgctttc agcgaagatt tgatcggttc tggttcttta accggttctg 480
 gaatcggttg ataccaggcc gcaagttggt caggttcacg ggctcgcttc tcttcaactt 540
 cttcaaagta gtaaagcggc ggacgcgcgg gttttgtctc ttctacaacg gggtcagctc 600
 cacaacaggc tgctgttcaa cgggttgccg ctggttggtac aacgggytct karcggctgg 660
 ctgctgataa gtttgctcag tctggatatgt agactgtgra gcaaaagtgg attgctgctc 720
 ttccggcttg caggcggttac ctgccaccgg ttgttctggc gcaggggcat aatacggctg 780
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 ggtgcaggag caataaccgg ctctcccgtt tgtggacccg gtacaggctg ccaggctact 960
 gtaggttgcg caggtggaac atcaacagag gcaacaggcg gcgtctgagt cacaggttca 1020
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 taattggcgc accgtttaat aatggatcgt attcgtcata ttctggctgc gttgcacgrt 1140
 tgcccgaata tagacgtcgt ccgggtcggc agccacaccg cgtgcagtgt aggtaatctc 1200

342

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ttcgtcatca tcccatccgc tttaccggag aacaacgcag cgtctgtttg ccgccccatc 1260
ggattaatga atttttccgc caaccgtttt aacgnaccta agccgccgcg aagaatacgg 1320
gcacggcggtg attcatgctg tttgcccgtg attttcatct tcatactctn cgtcgtcttc 1380
atactcatct tcatcgaccc aggtatcatc gcgacgggta cgattactgg cgaagggtgag 1440
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aacgtcaggc ccgctgcccc aacgcagagc agcgcaatag ttcccccgct actgtgtagc 1560
agtggttgta rcstagtgct tagtaarctg ccmatgacgc caccggaggc aaaataccag 1620
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gcaaaccaac aaccgccgac aataatgacg ggaatgggtg aagccattca cgccaaaaat 1800
aaagaacagc gtatctgcc aaccagcacc gggcatccca cctnaattat ggatagggtc 1860
atgccaggcc gtttgcgacc agctgggggt 1889

```

<210> 481

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 481

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taacgatttg tgttggtgaga ggcgcaactg cgattttctgc tgaacttgga ggcatttcta 60
cgacttttct ctcagctgag gcttttcctc cgaccctgat gctcttcaat tcggtgctcc 120
gccagcccca gctkggcgtc ctgagaaatg gatgggtcttc acaataccct cttcaatccc 180
ttctgactgg ttatcagtg agtggtaatg atgaacacac ttcttatgga gaaacaggag 240
tcccagttcc tccttttgga tgtaccttct cttctgctcc caatatggaa catgtactag 300
cwgttgccaa tgaagaaggc ttttgttcga ttgtataaca cagaatcaca aagtttcaga 360
aagaagtgct tcaaagaatg gatgggtcac tggaatgccg tctttggacc tgggcctggg 420
ttcctgggga attaaaattg ttacagcagc agnggtcaaa cagccaattt tnggncgtaa 480
aactgggtgag ncg 493

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<210> 482

<211> 473

343

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 482

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ggcgggggag agggaccagg gaaggcgctcg gggggaatct cgcgagggtt ggagtttttg 60
cgagagtttg tggaagatgg cgcctgttgt gacagggaaa tttggtgagc ggcctccacc 120
taaacgactt actaggggaag ctatgcgaaa ttatttataa gagcgagggg atcaaacagt 180
acttattctt catgcaaaaag ttgcacagaa gtcatatgga aatgaaaaaa ggtttttttg 240
cccacctcct tgtgtatatc ttatgggcag yggatggaag aaaaaaaaaa aacaaatgga 300
acgcgatggg tgttctgaac aagagtctca accgtgtgca tttattgggr taggaaatag 360
tgaccaagaa atgcagcagc taaacttggg aaggaaagna ctattgcaca gccaaacmtt 420
gtatataatc grctcagcca gcgaagactt tcatgttgtc tgtaaagtgt tct 473

```

<210> 483

<211> 851

<212> DNA

<213> Homo sapiens

<400> 483

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ggaactcagt aacgccttga gctgggttga ttgaggatgt gtgaaaagct cacagagccc 60
gatgcctgct gctatttcac ggcaatgagc ctttttcttt ctacactgaa gattttcttc 120
ttattttaatg tgggtttattt tgggctcaga aataattgct ctgttgaaaa taatcctttg 180
tcagaaaaga aggtagctac cacatcattt tgaaaggacc atgagcaact ataagcaaag 240
ccataagaag tgggtttgatc gatataattag gggtagctct tgattttgtt aacattaaga 300
taaggtgact ttttccccct gcttttagga ttaaaatcaa agatacttct atatttttat 360
cactatagat catagttatt atacaatgta gtgagtcctg catgggtact cgatgtgtaa 420
tgaaacctga aataataaga taataagaaa agcaataatt ttctaaagct gtgctgtcgg 480
tgatacagag atgataactca aattataata aaactcttca ttttgtgaat tatagaagct 540
actttttata aagccatatt tttttaggga aactaaggag tgacatagaa ctgatgaatg 600
agyaaaagta agttttgctg gatttttgta gaactctgga cgltgaggat tcattatgct 660
gtggttaact ttaaataattt ttgaattcca aatatctgaa ttaatgagcc ttgtctttac 720
aaatatgtgc cattgtgcaa catcggtgga ttttctaaaa ataatgtaaa tgtcttctat 780
taaagtgtga gtgcaataaa atacagaaga attctcaaaa aaaaaaaaaa aaaaagatct 840
ttaattaagc g 851

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<210> 484

<211> 1500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1430)

<223> n equals a,t,g, or c

<220>

344

<221> misc feature
 <222> (1451)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1454)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1457)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1499)
 <223> n equals a,t,g, or c

<400> 484
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 accgtctccc gttgaaaata tcttcttctc tcgtatagtg ttagcttgat gctccgttag 120
 atactttcaa tggaaacaga tttgcaactcc gtttgacagc cattttcctc caaccactcg 180
 ggaaactcgt agtaagagca ttacatgggc cctggaatac tgattcgccct gataatttgg 240
 aagaagtga gtttttactt catatgtggg tagctctgtt ttacagcaat cagaacaaaa 300
 tcatacgatc ttcccgaag gttgtagaac acagcaaccc agcaaaatat gtgtctataa 360
 atagcacgtt agaactctgt gagctccgtg aaattgagga gtcccttggt ttggaaaaat 420
 gttctgcaga ctctctgttg gagactaacg aaatttccag ggctcatgct gctgaagtat 480
 ccttccgtga tcctaactgc ttgcttcctt tcattaaaaac accacttacc caaggcttgg 540
 aactctgtgt acaaaatgaa cagaaaaaaa cttttgcaag agagtgtgat ccagacaccc 600
 aagaagacca gaatttcacg tgttcttaca ataatgaggt aactggggaa gaagctaaac 660
 aagaatcatt ggagacttct aatcttgtgc tttcgggtat tggaagtaca caaactaatg 720
 gaccttctgt tcctagtga gaagaaattg ttcagccact ggatagcaca agagtggctt 780
 cttacagtgg cactgttact caagccacat tcaccaggac ttacgatggg cctggcagtc 840
 agccagtgat atgtcagagc tctgtgtacg gcacccttga aaacaaagtg gatattcttg 900
 atgcagcagt gcaaacaaaa acaggtactt tacaggacct tatccaacat ggcagcccca 960
 taaacaatga atgtcacccct tccttggaag gaaaggatga taatatgggg kgtgcartga 1020
 ttaaccggga accaattact ctacaccttg aaaaaaatgc acatgtacca atacagacag 1080
 aagggtgtaa tactgctgat gaacctacaa cctttaagaa ggagttgatt aagcaagtat 1140
 cacctgctgc aagccttaga catcctgtat ccacctcgga aaatgcacga acacaaggcc 1200
 tgagggacat tccctctcta gtagttgcag gacagaaggg cactaagtac ctttgtgcct 1260
 cgtcagtagg tggagagaca cttgataaag cagtgtgttc attacagaag gagacgcccc 1320
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 gttctagtca tctatcacc agtgaagaar tgagatgcac tcaggatttn ctttyacaga 1440
 ctyagartct nctnggncta tctttagaaa ggcttcttag aacttgacac aggttgaant 1500

<210> 485
 <211> 491
 <212> DNA
 <213> Homo sapiens

345

<220>
 <221> misc feature
 <222> (452)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (453)
 <223> n equals a,t,g, or c

<400> 485
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 ctccctgcctt ttgccacatc ggccctcgtgc agtgaggggt ctgtgggctg gggctgctgc 120
 ccctgcctac ctccctgcctg tccccagagg ctgaggakag ggggtactgt gcccaccaca 180
 catrattagg cctcagaccc aactctgggc ctgggtccac aacagtggct gccactcact 240
 ttgtccagaa ggtggccttg ggggtggatat ctttgggttg ctggaaaagg tgtgggaagg 300
 ttcaggatgg tgggagggac tgagggtccct gaggtgaaga ggcccttggc cctgacgggt 360
 ttgaccctgt cctggaccct tggagcagtg ttgtgtgaac ttgcctagaa ctctgccttc 420
 tccgttgtca ataaagcctc cccctcatga cnnaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
 agtcgtatcg a 491

<210> 486
 <211> 1317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1310)
 <223> n equals a,t,g, or c

<400> 486
 gaggataggg agcctgggggt caggagtgtg ggagacacag cgagactctg tctccaaaaa 60
 aaaaagtgtc ttttgaaaat gttgagggtg aaatgatggg aaccaacatt ctttggattt 120
 agtgggggagc ataatagcaa acacccccct gggtcgcaca tgtacaggaa tgggaccag 180
 ttgggggcaca gccatggact tccccgccct ggaatgtgtg gtgcaaagtg gggccagggc 240
 ccagacccaa gaggagaggg tgggtccgcag acacccccgg atgtcagcat cccccgacct 300
 gccttcttggc ggcacctccc ggggtgctgtg ttgagtcagc aggcattgggg tgagagcctg 360
 gtatatgtctg ggaacagggt gcagggggcca agcgttcctc cttcagcctt gacttgggcc 420
 atgcaccccc tctcccccaa acacaaaaca gcacttctcc agtatgggtg caggacaggt 480
 gtcccttcag tctcttggtt atgacctcaa gtccactctg ggccctgcag ccagcctgt 540
 gttgtaacct ctgcgtcttc aagaccacac ctggaagatt cttcttccct ttgaaggaga 600
 atcatcattg ttgctttatc acttctaaga cattttgtac ggcacggaca agttaaagcag 660
 aatgtgtctc cctccctggg gtctcacacg ctcccacgag aatgccacag gggccgtgcr 720
 ctgggcaggc ttctctgtag aaccccaggg gcttcggccc agaccacagc gtcttgcctt 780
 gagcctagag cagggaggtcc cgaacttctg cattcacaga ccacctccac aattgttata 840
 accaaaggcc tctgtttctg ttatttcaact taaatcaaca tgctattttg ttttcaactca 900
 cttctgactt tagcctcgtg ctgagccgtg tatccatgca gtcattgttca cgtgctagtt 960
 acgtttttct tcttacacat gaaaataaat gcataagtgt tagaaaaaaa aaaaaaaaaa 1020
 atttattaac ggcgcaactt atcccttagt agggtaattt agctgcactg gcgcgtttca 1080
 cgcgtactgg aaacttgctg accactatgc tgagaatcct tcgcactgta atcgagagcc 1140

346

gcgatgcctg acagtgcctg atggatgcgc cttagcgtac gggtttgtgt gcggacgaat 1200
 cactaggcct tgtccttttg aagggggctc gggagggggg gtgttccaaa aatgggccaa 1260
 atttggcgct agttaaacad gtttgtgggg aaaagcaaag ggggttatan aagtttc 1317

<210> 487

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (932)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (942)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (944)

<223> n equals a,t,g, or c

<400> 487

tgcaccacg cgtccgccca cgcgtccgga cagaccacg ctggagctgg cccctggcct 60
 gtgtgctgac ttcttggggg cctcaaacca ctgtattttt ctgttgagcc tgtacttggg 120
 gagagatcag tagcatttga ggaagtaaga gaaaagaatc atggtacctc agggtttctt 180
 tccctttact cgctggcagc cattgtctgt gggcacctca tgtttttcca cactctactg 240
 ggccgtggag gtaacgatca cccaggccag tctcctctgc ctgggatgag cccctctgaga 300
 ggaggcctag cagggcaggc tccctctggg catccctgga tgcagcctct ggacacatgc 360
 ctcctttaaa gtgtccgggt gcagctcagg ttgagtggag gtagaaggag aaacagacat 420
 gtttaccacg cgttttccaa agctcctgat ctttcccaag attgtaactg aaaactgctg 480
 tctcttgttt tgttcgtttt ggggtgtgtg gtgctggctg ggccatgctt gtgaagtgat 540
 gtgtgtctct attttaacgg attcactgtt ttctctgcta attgagagag cgttattttac 600
 attatatttt tgttttgaca caagtgtctt cagtgtttta tcctagctaa tggcttctta 660
 aaggtaataa aacccttcca acgtaattgg tcagataaaa ctttttttct tgtatgctta 720
 aataaagcaa ttagtgaagc acttctatcc aaaatgactt ttttgtcctt ttttaaaacc 780
 aatttactgt tactggaaac tttttgtaca ataaagcaat cagcgagatt aaagaaaaaa 840
 aaaaaaaaaa aaaaaaaaaa aagggcgggc gctctagagg atccaagctt acgtacgcgt 900
 gcatgcgacg tcatagctct tctactacgt gnaccctaac tncn 944

<210> 488

<211> 1677

<212> DNA

<213> Homo sapiens

<400> 488

gaattcggca cgaggtttgc agagtgtctt ccgcccetra tctcattgga gccatggact 60
 ggaagacact ccaggcccta ctgagcgggt tgaacaagta ctccacagcg ttcgggcgca 120
 tctggctgtc cgtggtgttc gtcttccggg tgctgggata cgtgggtggc gcagagcgcg 180

347

```

tgtgggggga tgagcagaag gactttgact gcaacaccaa gcagcccggc tgcaccaacg 240
tctgctacga caactacttc cccatctcca acatccgcct ctgggccctg cagctcatct 300
tcgtcacatg cccctcgctg ctgggtcatc tgcacgtggc ctaccgtgag gagcgggagc 360
gccggcaccg ccagaaacac ggggaccagt gcgccaagct gtacgacaac gcaggcaasa 420
agcacggagg cctgtggtgg acctacctgt tcagcctcat cttcaagctc atcattgagt 480
tcctcttctc ctacctgtg cacactctct ggcatggctt caatatgccg cgcctggtgc 540
agtgtgccaa cgtggccccc tgccccaaca tcgtggactg ctacattgcc cgacctaccg 600
agaagaaaat cttcacctac ttcatggtgg gcgcctccgc cgtctgcatc gtactcacca 660
tctgtgagct ctgctacctc atctgccaca gggctctgcg aggcctgcac aaggacaagc 720
ctcgaggggg ttgcagcccc tcgtcctccg ccagccgagc ttccacctgc cgctgccacc 780
acaagctggt ggaggctggg gaggtggatc cagaccagg caataacaag ctgcaggctt 840
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gcctttcaga cctgtctccc agggacttgg gtggatgcgc tgatagaaca tcctcaagac 1620
agtttccttg aaatcaataa atactgtgtt ttataaaaaa aaaaaaaaaa aaaaaaa 1677

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<210> 489

<211> 1640

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<400> 489

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tttagatctc aggtctaaag ctctctttcc ctccctctcc cagctagttt gtgctaatta 60
agagaccttt tatactgttt tattgcctgt ttgaagaaat aatttttatc acgtttttgt 120
aagatatcta taattttaaa tgtttataaa ttgtttaatt tattagcatc ttaatgtacc 180
ccatttttat atactgaatg tggccttttg agtgaaatag gaagcttcat ggtgttggag 240
ccacctttgt acagttgttt aaagtttccc attgtcacgg aaaacattgg ytgaaaagcc 300
cctcaaagcc ctcaagtgcc ttctgtgagt ttaaattgtc tgggtgccctc cagaaaagcc 360
tcggcctcag ctccgtttcc gcctgttccc tccccagga taatgaatgg ttactgcact 420
gtaaagaccg tgggtctctt tcaactaaata ggagattcga gtttcccagt ttacatgaat 480
gaagtctgaa ttttaagacgg tgatgaaact gaggttcagt actctcggga ctcgaggaaa 540

```

348

```

ttattcctga gacatggagt aattcttaca aattttaaact attgtacaga tccacataca 600
tggtgttaag tacctaattgt tttgctgaac tttttaaagt taattttccaa aatgtatagg 660
gattcatgat aattaaaccn tttttattgc tcatnttttt agtagaagaa tatcacttat 720
ttttagactt gtaaaatgta tgractgggtg agcggacatc tgtaagaga gtcactagtc 780
agaatgttaa aggagtgcac gcaggatgcc ccaaatgtcg tgaactcttg ttactcctgt 840
atgtagtagt gtaagcatgt gacttttaac accatttggg ttgaaactaa tgtagagatg 900
cctgattcca aacagggtgtg gagaatattg aacggctcag aagccgcgtc ccttacttaa 960
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atgtccacag ggggacctgc ctcccgtgat gtcccacctt tccttcaagg tctgtcatat 1260
gagtcctccc cttttacaac acttattatg gtatttttca agttattctt cttagatttg 1320
cagtacctac tgaaatttgt gtttttatag ttgaagttag gaaaatgcta tttgatttgt 1380
awttagatat ttaagtcact tgtccaatga tgtgtatgtc taagcctcat gtaccgattt 1440
gaagtcagac ttaaaaatgt atttacagat tcacttgaga ctttttaatc gggtcttcaa 1500
atatttcatg ttacatttaa aaatttccag agaagcataa aagtattcac tttcctgcct 1560
tgtcatttct ggaaagattt tggggagata ttttattgca tattaattaa taaattgttc 1620
tactaggaaa aaaaaaaaaa 1640

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<210> 490

<211> 637

<212> DNA

<213> Homo sapiens

<400> 490

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atttcggcac agtaccgctg ggaccagcct tatctcagac ctgcttacct gcatgatgcc 60
tttttggggg ctggggattg artcttgctg ctctgccag cctgttcta ttctgcargg 120
tccctgtgtt ggaattctcc ctggggaacc tactttctgc tcagtgargc tccggccaga 180
aacctggagt ccttatectc ccctctgtaa gtgttttagg gtctggcttt tgcaggcacc 240
ctctgacctc agcagagctc ctgggcctgc tgctgcaca ccacatcgcc tacctacaat 300
gccaaagcct cactgtcacc ctttctgcct tggtttccct agctgagcca cgctgcccat 360
gcagcagagg gcagaaggct tgcacttggg ccaaagggcc taaggccac tggacagttg 420
ggaaaacacc tgaccacat ttaaggactc taagccagaa tggaaaattc accaggactc 480
cattcttaag cctatgcgag tcccctagag agaggcattg tactgatata taaatattat 540
ataatatata catgagacat actgacagaa tctgtaagct aataaaatgt aagaaaaggt 600
taaaaaaaga ataggtaaag tgacaagaag taaaaaa 637

```

<210> 491

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

349

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 491

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gcctgcttgt gtccccctcca agtccttctg atatttttctt ttccagctgt tgcctagttt 120
cctgggtatta aggagaatca actctctgga taaacgtggg aaatatggcc catagtccca 180
tcttttttaca ggcatttttt acacctggag cagccagagg acgcatgcat ggctcttcgg 240
aaggtaattt agggatcacc catgtaagtt tcctaaggat ttctttaaca tggttcttct 300
gattcagtcg ggccaattaa atctgaaatc caccctnga aagccatctg gtgtggataa 360
caaggcccac aaattgaggc agttcagctt tttgtgnctt tttaggcytg ggacaaccac 420
gggatcttaa aggggggngg ggaactagga ggtttttgag ttcc 464

```

<210> 492

<211> 777

<212> DNA

<213> Homo sapiens

<400> 492

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tctgtgtcac tcttgtatgt cctcatatct ttcatacttc ttgtgtagtc tctagaagca 60
gaacacctaa gtccctgggtc tggataatga aaccctcagt ctctggggcc tctgaaaata 120
aggaagcatt ggagctattg ccatgttgag tartgggctt cctagaacta ttgtcatcta 180
tcctgccagt gttttatggt gtagctgttt ttctttgaca ggtgagttcc agctatgttg 240
ttagtcatga tcctgccatt attttctgtg ttctgtagga tgtctccagg ctacttaaac 300
atattttatg agtttgcaat aaaattgttg aatcttgtat gatcaagtca ctctctgtct 360
cagaaatcca cagtgacttc ttagtaagcc cctacattat atgcatactt gtttttttct 420
taactttact ccactttcta cctaacaggg acctcaactt aagtctcttc agttcttcaa 480
ggcctggcct tgttcctgat tcctcaaaaa atcttgactc taaggcctat tttattgtct 540
gtctctgaat ccctataaag cttcaagtct gtatgacatt cttaacgcca aattatata 600
tgtcttgtag tgttcctagc tgggtacatgt atattagtct tgtctccctc atgagaatgt 660
aagctcctta agggcaggga ccatgtctta atttttgtat ccaccacagg cctagcacag 720
tgcttggcac atgggtgctg aataaatacc tttgtttatt gatcarmaa aaaaaaa 777

```

<210> 493

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

350

<400> 493

```

tccaagctcg aattcacctc actaaagggg acaaaagctg gagctccacc gcggtggcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagat taataaaaca 120
gaggagtaca ttttaccctt gcaattccag tcaatactgt ggtgtcattt cagccaacat 180
accaacattc agtcaaattc caaagccaaa tggataattt cagatggaat ggagttagac 240
aggaactggc ttccctttct cctgttacta tgaggacaac ccacacctgc tcagtggcct 300
aaaatatttt aaatatgttc atgacaatta tgctgagaat gccaggataa crctgatgga 360
acccatgact tcaccaggat tgtggtctac atttacaggc ctagtactag aactagaccg 420
gcttagagag tgggagatat ccctctgttg tccatcgaaa agataaaaat acaggctttc 480
agccggtgtg cagtgggtgca tgcctttggn cccagctac tnaagggggc tgagaatggg 540
ggaatccttt ttgagcccca gaaa 564

```

<210> 494

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<400> 494

```

ttagagctca atgctttgtc ctctgtcatc cttctactgc atccctttct tcgtttcttc 60
acttcaactt tttagtaaac ttgtctgagg cattagcttt actcttacgc attttgctcc 120
cctgcctttt tgttataaat attatcatgg catgaaacaa aaagcctggt atctgccttt 180
ccatgatcac tttgctgaca ctgtttcagc cacaagtaaa cctagcaact ctatgaatag 240
caggacagac ttgaatgtgg tgtgtgtgca aggaagttat ttnaactttc ttaatcttaa 300
atgccaccag aaaacattct gctccctggt acttcttttt tttttttttt aaattacttt 360
gttttgcggt aaggagttgg ggaatgtgtg gtggcaggga agtaatgtaa gttgctttat 420
aactcactgt ctaacaaagt tttgaaaatt tgtctgatat gtaattaggt acttttaggt 480
tattaggttt tcataaaaat tctggttagg gctcttgccct gctcccaatg aaagcctttc 540
cacagggcaa atataaaaga gagagtagag ggaawycccc tgaggtttaa atamgtcaaa 600
ccagtaagta atagtgtctaa gtttgtcagt gcctctcttt cttactgtac ttaacatcta 660
aaggggcacc tcatttattt tcaggctaata tatgttcttt atgggggtgac tgtccaatca 720

```

351

ggggaggggt gttnacgggc cagtggggag ataccctttt cntaattnat agc 773

<210> 495

<211> 723

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<400> 495

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gtcctagtga agaggaaggc ctgtgtagca gaaaggcttt gggcctgaga ggtaaggcc 60
acagctgttg acacctgttt tggtcctgcg accctttact ggtctccgct ggctttgaat 120
cttcctctgg gctctactct ggagaacata agggctgctg tggttgagtc tggctagcac 180
tgtctgtggg tggcagtggt tacacccctc cggtcagttc cttgggggta tttttcagaa 240
atccaaaggc aacccttcgt gcagtgtctc cttttttaag tacagttgat tacccttgcc 300
tgctgggggg cctagscatg ggccagagat ggaggagccc cagtggctga caggscagcc 360
tcactcaggc acgtacctgc tgaccagtca gccactgcca acccatggcc cagccactgt 420
gtgcattagc agggagggtt gtaggscatg gaggaaatga ggagacacca cctagtggag 480
acattggggc cctgytgggg ggatgggtgc tatagstggy tctgctggct ccctcaggcc 540
ctgcttacca agctctggag gaggggagtg ctgcattact gagcacctc cttgttnttt 600
cctcatagga cactgatgtt actgtcactt tagttatgct aaagtggagg tttcagcctc 660
cagaaggaca gcagagcctt ctagggtcac cttaagaata ggttttagct aggctggggg 720
ttt 723
```

<210> 496

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 496

```
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gcctctccat atcttagcca attatgttgc tattttcatg gcttcagtta tcaaaacatt 120
actgctgggt agcagggctg tagttctcga cagccttcac agtgcacatc tcttgaagtc 180
acatgagagc tctttggaaa gttgaaatta gaggcattct atatttactg ggkctgaatt 240
tgkccctgac tactmatgga gtagaaaatg acccattttg cctacattga gtaggctgaa 300
ggaatttgca wttctccact cttgtgaggg ttacacctaa tttattttaa atagaacaag 360
ttcttnatgc ttaggggttaa gcctttanaa atggaaaatc tcgatattca tctctctatc 420
ttgataaaaag tcagccaggc cattt 445
```

352

<210> 497
 <211> 617
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (525)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (603)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (617)
 <223> n equals a,t,g, or c

<400> 497
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 ttgggtaagg acttgggttt cagggcatga gttggcttcc ttgcaggatg caggtcctta 120
 ggtgggtggc ctctgtctcc agctgtaggg ccctgccagg aagcctctat atgagcctac 180
 ctccctcctg caggaccaga gaggggttgt tatgaacagc ccaggggatt ggttgacta 240
 agcttgtctt gaagcttttg ctggggagtc caggtgcccc tgtctctcac ctgctcccca 300
 tacacatctc tgcacacctg gctgaggcat tcccagacct aacctcagat aatgtgcatg 360
 tgatgaacac tcccaagtgg ctaggcctct tgcacctgag caggtggatt ctgccccagc 420
 actggggctt tctctgggct gtccatcatg ggtatatctc tggattccag gattgctagt 480
 tagcacctca catttgaggg tctgtgctat tcartctara atcanaattg gatgaaaaat 540
 caactttgac accacctttg ggggtggctgs attggcttwa cacctgkaat cttaacactt 600
 tangaagctt aagccan 617

<210> 498
 <211> 1189
 <212> DNA
 <213> Homo sapiens

<400> 498
 actactagag aaaaaccaac tggcagtttg ctaagcatat ctactgggtgt tgtttctgcg 60
 cctctttttg gctaattgat gtaattatac tggctctaaa gatttactgc ccataagta 120
 aatagtatag ccacattctg aacatatcaa aagtacaaac ttaggaggag tgtatgtaca 180
 aaaatgtaaa attttatgaa aatgaacatg tttttatgat gttatttcta gttcataaga 240
 atgtgatgac tgctttgctt catttatgta cgttcccatt atattcttgc tgtcaatcaa 300
 tcacaaaatt atatcagatt aggataaact aagccatttt atgtatttta ttttaaacct 360
 tattttggca gagtaattcc ttagaatttg aaaagctggt actttgaaat taccaattta 420
 ttacaaaaca tagaaatgta ttgkagctac aaagacaacc aagcattttc tgtgttttaa 480
 tgaatatcta aaaaactaca tttagtttat tttactcagt tttgaaatga tttttttact 540
 ggctctattg ctttaaaata actaagagat taatgattct ttgtataatt ttccttttct 600
 ttgttctttt tttaccattt cgcagagtta tatctatagt tttagtaaca atttcttatg 660

353

```

tattctggat aactgaaaac aactaaaggt gttgggcrtt agaaaataat tgtgagcagt 720
aagattactg atgtaatatg tatgttggac tgaagtattt ctttataaac attctatttg 780
attttaagca aaatgtatgt taaagcatgt ttttacatca gtaaagtcac ttgtcgacct 840
tctggaaatg aaagggtttt acctagatac tgtaagttac acctccttaa caatcatatt 900
tgtcattgtt gttttctgca aacaaaaaatg tttatgggct tcatgtaggc ttaagattgt 960
aggcaaaaat ggactgagtt caggaccctt caagcagtag gcattcagtt acagagcagt 1020
tggtactttg taaccagac ttacagttta aaaatatcaa gttagctgat gtttcattat 1080
aataaaaata ctattttgct taagagttgt attacaaata tttgtgctta acattagaaa 1140
tagctgtttt aaattgtagt taacatatta actttttcag aaaaaaaaaa 1189

```

<210> 499

<211> 396

<212> DNA

<213> Homo sapiens

<400> 499

```

attaaatcaa atgatattga catattatga gggagaagaa gtcaatgctg gaaggattgg 60
gctaacgcta gtagtagctg gaatgggtgg ctctattctt tgtggcttat ggctggatta 120
tactaaaaca tacaacttct tcatgactgg ttacctcctt ttgggttttg aatttgctgt 180
tgaaatcact taccctgaat ctgaaggtag ttcactctgt cttcttaatg cttctgcaca 240
gatatttggg attytgttca cattgggtca aggaaagctc acatcakact atgggcctaa 300
ggcagggaac atttwtctct gtgtctggat gtttatascg atcatattaa cagcattaat 360
caagtctgat ctgcgagaca caacataaat atagga 396

```

<210> 500

<211> 1309

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<400> 500

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aaaatgtgcc agttccactt ggtaataacg ttgggaaaat gcagggtttat gaatgatgtg 60
gactttttaga ggatcaaate aataaattgg attttttatt ttttgagggc agctgcmtea 120
ctgtttttaa taaagaatct tacataagaa tgttgacaac attcacagta agccattgsa 180
gaaaattgat ctgcatgtcc tagaccaatg attacaaggt gtctgtgggt ctgtggttta 240
ggggggccag ccnatcattc cttttccctt tggcactcat gagagagatg ccaagttcag 300
tgtggatttt tcttggtgct ctatggagaa atggagtctg tgtgcttact gaagagtccc 360
aaaaascaga gaccattttc atttaytgcc atcataaata ttctccacca ttcaagatgc 420
ctgtgtacac ggctattttg gaaactwaag tgttggagga ggcaggggct gaaggtgtca 480
aaacctcttc agtaggataa cccctttctc ccctttggac catctgccat ctttcagtag 540
tgtttcccat ggtgtttttg catccagagt tgacarcaac tcaattttgc cttgaattta 600
ctcagtctta taaattaaaa atgtgcattt tatataaaga tgcattttat ataaaaatgc 660
acacctttta tctctatatg gcagcatata catatatata tataaaatgc acacttttaa 720
tctctatatg gcagcatttt tgaggcttta tatctgcccg tgtaccctca actgcctcyt 780
ttttgcagag aacgatcccc acaggaactg gtctaagaac actgtctgca catgattgat 840
gcttaaaatc caatatacca ccacatatca aaggktggga ttttcagagt cttctttagat 900
ttctgagctg aaaccttaac aaatagggaa tttggcaggg aagacacctg ggtttttaat 960

```

354

```

tcagaaccct atttatatac tgttaaaatt tgaggtagta tagtttatat aaaagtcgga 1020
tgtaagata ttatatattca gtactaggag cttctttgca gtcattaaca tgacaaatta 1080
agtaataaat ataaaagtga ttgtccataa attatcattg aattttttgt ttattttgta 1140
gtgttctgta tttatctgca ctttgtgtat atatacacac atacatatgc caacatgtaa 1200
ataacctcat gtttattcct aatctaaatt gccmcaatat ttttaatgta tggttacact 1260
gtgttttaaa ttactttaaa aataaacttt gtaagcagaa aaaaaaaaaa 1309

```

<210> 501

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (882)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (892)

<223> n equals a,t,g, or c

<400> 501

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aattcggcan naggggncaa agcagttaga gttcagaggc cagcgggtca gggccactcc 60
ctccctagcc ttcatacaga gacacccctc catccccctg cattgctctt ctgtgaaagc 120
aaatactaaa ggatgccatc ctctggaatc ctaatggcag gcaaaggag agaggaaggg 180
tgacggcttc tggcacttag aaaacaaaaa gaacaaaaaa agagaaaccc ccaagcctgg 240
aacgcagaga ggtctttact gctgggatcc acggaaaaca tgtctgtcct agccaagatc 300
atatgaagag tttggcacgg aggctgagaa tgacctggca tagatggttt gccagttagg 360
atgtctcaat ttgagccttt gcttttggtg gataactcag ctccctctt gtaacctgga 420
aagttgggtg cctttatcat cctgctgggt ttatccatgg actgaacacc caacagcagt 480

```

355

```

gcactatgst ttctatggca tctttcattc tcattttata ttgtgctata aaaaggattg 540
tttctccata tatatatatt atatgtgtat atatataata tatatatgtr tatatatatt 600
atatatatat attatatata taatatatat ataaaaatata tatatatatg ctctcctctt 660
tcagcctctt tgtcacaggg aaraagtgtg ggargttgcc ttgggcctgc ctctctccta 720
acctcctctt cccactggg taccctcagc ccctatatatt taattcttga tcatgtarga 780
aattgttttt gggtaaatgt tgatattatt gttattatca ttattaatta aataaagggg 840
aaaagggaat ttttgtttta aatgaggaaa tgtttaacca gnttctgttc tnttttggt 900
tgtggacttg gcaccttttg ttccaaggta tttcctttgg ggcc 944

```

<210> 502

<211> 664

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (631)

<223> n equals a,t,g, or c

<400> 502

```

ggcagaggtc agtagggatt taagataggg agaaaatgta gctcagggaa aatgtgtgca 60
gtacaaaaga ccataaaatt tttcagaaag cagcttgccc ctgtgnaagt tgaccagatt 120
gaaagtccca gaatectggg ttccagtnca ctcatgaatg gcttttggtt aattcttcct 180
gtgcttcaat tctttctctt gtgtgaaatg ggtaacacct tatctgcctc cctgagatgt 240
catggaaata agcaaaatta ggtcttaaaa ctacttgga acctaaattg tgaaaattat 300
ctttatctct gttgtttctt agttaccagt ttaccagaag taacttaaca ctaggattct 360
ctgcyagtac taaaattaga ctctaccact ctgggctttc cttttctccc tcttgctttt 420
gttttcgggg cgtggaggag acatctgtgc tgctggagtt aataataaac taaagactaa 480
agaataactt ctcccactag aaaatactat tttcatccta cccacctgat caggctttaa 540
aagaaggagc ccaaactctg catggatttt gattatttga ttcactttkg gaaatgtgcc 600
tgaraaarcc tagggaatga gagaagtngg nataaatggg aatcttaaat ggtatagaaa 660
ccaa

```

<210> 503

<211> 602

<212> DNA

356

<213> Homo sapiens

<400> 503

```

ggtttttcgg ggggtggccc aagccagcct cgctctcgk gggggccatg gtgaggctgg 60
agcctgagga ccaagtgtgg gtgcagggtg gtgtgggtga ctacattggc atctatgcca 120
gcatcaagac agacagcacc ttctccgat ttctgggtga ctccgactgg cacagctccc 180
cagtctttgc ttagtgccca ctgcaaagtg agctcatgct ctcactccta gaaggagggt 240
gtgaggctga caaccagggtc atccaggagg gctggccccc ctggaatatt gtgaatgact 300
agggagggtg ggtagagcac tctccgtcct gctgctggca aggaatggga acagtggctg 360
tctgcgatca ggtctggcag catggggcag tggttgatt tctgccaag accagaggag 420
tgtgctgtgc tggcaagtgt aagtccccca gttgctctgg tccaggagcc cacgggtggg 480
tgctctcttc ctggctcctc gcttctctgg atcctcccca cccctcctg ctcttggggc 540
cgccctttt ctcagagatc actcaataaa cctaagaacc ctcaaaaaaa aaaaaaaaag 600
gg                                                    602

```

<210> 504

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (541)

<223> n equals a,t,g, or c

<400> 504

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tcatgactga aaaggagctt tggaaatcac tgcataaggc ttgatttatt tgcacaactt 60
tcttttaggt tgcagctaga acaaacctgt gcgctttgaa atgttacctt ctgctctctg 120
ttcccaagta cagagaaata atgttgcaaa tctcacttct gctgaacatt atgcttctg 180
atgcatttag cagacactaa acatttgtca tactctaaac aaagttacaa aggactagaa 240
gaattcttgt tctgtattta gaaaccact cacattactt gatatttggg tatttaagtc 300
atgaaaggta tttcttctag gaagcagtga ttctaaagt tatgcttaac cagtcagttg 360
agtgtctact cttgtgtgtt cacaagtgt ccaargttt kggtaaatta agaattatt 420
ttcaaataaa ttaattcatc cccataggag ccagtttaca gataatccgt tctcntttct 480
ggcaatcata cacaatgaac tcatttccga ataaatataa tanttttct tatttccacc 540
ntggtcc                                                    547

```

<210> 505

<211> 2083

<212> DNA

<213> Homo sapiens

357

<400> 505

```

cgtccgattt actattctta aattataggc agctgtttgg ggaagaagat gctgatcaag 60
aagtatctcc tgacagagct gacctgaag ctgcctggga accaacggaa gccgaagcca 120
gagctagagc atctaataaa gatggtgaca ttaaactgtat ttctactaag gaatgggcta 180
aatcaactgg atatgatcca gttaaacttt ttaccaagct ttttaaagat gacatcaggt 240
atctgttgac aatggacaaa ctatggcgga aaaggaaacc tccagttccg ttggactggg 300
ctgaagtaca aagtcaagga gaagaaacga atgcatcaga tcaacagaat gaacccaggt 360
taggcctgaa agaccagcag gttctagatg taaagagcta tgcacgtctt ttttcaaaga 420
gcatcgagac tttgagagtt catttagcag aaaaggggga tggagctgag ctcatatggg 480
ataaggatga cccatctgca atggattttg tcacctctgc tgcaaacctc aggatgcata 540
ttttcagtat gaatatgaag agtagatttg atatcaaatc aatggcaggg aacattattc 600
ctgctattgc tactactaat gcagtaattg ctgggttgat agtattggaa ggattgaaga 660
ttttatcagg aaaaatagac cagtgcagaa caattttttt gaataaacia ccaaacccaa 720
gaaagaagct tcttgtgect tgtgcactgg atcctcccaa cccaattgt tatgtatgtg 780
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aagacaagat agtgaaagaa aaatttgcta tggtagcacc agatgtccaa attgaagatg 900
ggaaaggaac aatcctaata tcttcggaag agggagagac ggaagctaata aatcacaga 960
agttgtcaga atttgaatt agaaatggca gccggcttca agcagatgac ttcctccagg 1020
actatacttt attgatcaac atccttcata gtgaagacct aggaagagac gttgaatttg 1080
aagttgttgg tgatgccccg gaaaaagtgg ggcccaaca agctgaagat gctgccaaaa 1140
gcataaccaa tggcagtgat gatggagctc agccctccac ctccacagct caagagcaag 1200
atgacgttct catagttgat tcggatgaag aagattcttc aaataatgcc gacgtcagtg 1260
aagaagagag aagccgcaag aggaaattag atgagaaaga gaatctcagt gcaaagaggt 1320
cacgtataga acagaaggaa gagcttgatg atgtcatagc attagattga acagaaatgc 1380
ctctaaacag aacctcttta ctatttagtt tatctgggca gaaccagatt gttatgtcct 1440
ttgttccaaa gggaaaaaat tgacagcagt gacttgaaaa tgattctgct ccttttgaaa 1500
gcattcattt tgctagaact gttagacaca ttgcagtatg ctgtattgaa agtaggaata 1560
tagtttttaa aaccttttga acaaagtgtg tgcataacca gtcattgagat aaaacaacac 1620
aatgcatggt gcctttttta tgtaaatacc cttaggtatc attaatagtt tcaaaatatt 1680
gtggtttagt aaagttgata cctgggtata aatattatgc ctttattttt ggctagaaga 1740
agaattattt ttagcctaga tctaaccatt ttcatactct taactgattg aaacagattc 1800
aaagaagtat cgagtgtat gcattgaaac ttgtttttta atgttagatg gcaactatgta 1860
tattaatgta aaacaatgtt aatttactca agttttcagt ttgtaccgcc tggatgtct 1920
gtgtaagaag ccaatttttg tgtattgtta cagtttcagg ttatttatat tcgatgtttt 1980
gtaaaactca aataacgact atacttatgg accaaataaa tggcatctgc attcttgtaa 2040
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2083

```

<210> 506

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<400> 506

```

agcctccctc ttcccatgg aacttacaat caagaagcat cttccaattt catgtacact 60
aaacctaggt ggccacaagc ttcatttggg ccatgaactc ctttgaaacc ctcataanaa 120

```

358

```

ctgtcctact atctccctgg taaatcgac atacacagag ttttgccttt caggacatat 180
ggccttataa gattttgact actagtgacc aaaatgttga tgtttttcaa aaattacaca 240
gaattgttaa gatggaatag ttttattcag caaacaaaaa acttgctaatt cagagtatc 300
ctctagtcca cgtaatgtgg tttagactac atttgcaaaa ttagggcctt gacgctgaac 360
aaaataaaat ccagaggaag aactacagta tccaatcaaa aaggaagtac tagcaaatga 420
accagaataa aagactttat tgtattccat acattcacag gtcacttcca gatttagtaa 480
caacactgca atgctatgat gctgtgcggt catttagctt aaaccacagt gtaagttggg 540
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ggcaaccaat gcttatttca ttggattatt ttctgactgg gacatgagtt catcgcatct 660
tcccagaatt ttaaagtacc ttcccttaca ttataagaga tgaccaaaca ctctagtgtg 720
arggctgctt cacacactgt tcttatctat catgattgct cttccttaca tacacgtccc 780
gtacagatca gctacacacg gcatggtcct gaaaccacag cttttgttcc tttggccaga 840
atgcacccct caccttgagt gcccgcctta gaaacacagg tacttggttc tcacaggggtg 900
tgcattggtt acacaagttc atctgcccc aaggtaaaagc tcttcaaac ctttgcattga 960
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gcctgttagg ttatggatgc tcacctgact ctctgaagca gagggaggct gacacagatt 1140
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gcaagaagct ttttaatttt tcttttctat aatg 1234

```

<210> 507

<211> 646

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<400> 507

```

gatacaggcg tgagccactg tgccsggcct tcttctttca agttatatag aatggagcat 60
gggggtggca gtggctaggg acatttccct gggacactct cccctaacc cccagaagga 120
cttcacaaaa acctgtggat aatggaaggg atgttacggg acaaacgtat atttatgtgt 180
gtgtgtgtgt atgtgtgtgc gcgcgcgcgt gtgcacatag gcgtgatgtc tgtgaccctc 240
ctctcctcgt cacatttccc ccagaatgaa tgctgtcctg tctgctcatg tttgtgttga 300
agctgccaaa gtcggggagc tctggctcctg cccagacccc tttggaattg ctggcccatc 360
ctcccactgg agagctgggg tgcagctcac cttggggaag gaaacctcat gcctcagagt 420
aatttcttgt gaatgcaaag cctgggggag cgggtctttg gggggcaagg agccagtcag 480
gggcttgttt cccctcatag agctccccag acgtgcctcc gcaatgcctg aaaccagac 540
ctaggctaatt aaacggttca atttctgtta aaaaaaaaaa aaaaaaaact cgaggggggc 600
cgtacccawt sgcccttng tgggtggttt taaaattcat tggggc 646

```

<210> 508

<211> 2257

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (838)

359

<223> n equals a,t,g, or c

<400> 508

```
ggatgattag gctgtgtgtg cgkgtgagaa tgatcacatg tggcgtcatg ctttgtacag 60
agcctcagac cactgggcct ygtccagtga gagtcctctc tggcgacatc acacgcggag 120
agccaggggc caccttagat ctcagatctc tcagagcaat acttttctga actgccactg 180
tgcctgggtg gttgggtttg gtgtcatgct tctgactaga gtagatcgcg catgtccacc 240
agtgatacgt tgagtcctta cagttcccc ccatggagtc cacaagcagc tccatcgaga 300
tctgtcagca agttgcagga ccccaaatg ttctgacatg ttaagacccc cttacatgac 360
gagtagagag gcagctgagg ccacaaccgt gtcttctctc tgaatggagc taactcggaa 420
cccccgttt tctcttcctt tctgcccacc actgaacatt gcctttttaga taactcagtg 480
tttcttctag atgtcatagc aatagacttt cactttcatg aagtttgggt acgatttgga 540
ttctcgctta agtacakata tttatcaata tttttataag gcaaagttca yttaaaaaat 600
ctttccaagt agcagtgtgc ctaagatggc aaaatactaa aaactgggtg ttctgtctcc 660
tggtgtgtgt cacttttcaa gccgattgaa atatttctgg styttagggc attacttttt 720
aactatctcc tttaaaaacg atgttctgta ggtttagtgt ctttgttcat ttccaaaaga 780
gtccagacaa ctgtgtctgc ccctgcagag gctgtttgtc caaaggcagc atgccgcntt 840
ccaccggaac gcagacagca ggggagcgga attctaaagc agcgacttaa aatgaggaat 900
ccccaatgc actaaatggt ttcaggattg actaatcatt gtcttaacat taactcagat 960
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tccccctctg ttttccctca ttacttttga cctccttaag acttcagaga gaatgtccgt 1140
caagttcttt tctccatcaa gttctttaag ttccttgaaa ggaagggact gtgcaaacac 1200
aaagcaatat tcttttgtat ctgcaaatgc gtcmtgggac ataccaattg gtatcaaata 1260
gaataaaatc aaatataaat gtttgagtct taggttaaaa aggaagggtt tttgtatagt 1320
ttatagataa tgaaggaaaa atttcttttt cattgcagga aatcttgttt actggaagat 1380
agagtcactc ttttcatata agacaaatag tgctttaatg ccaacttctt tttatctcaa 1440
catttcagga tcatgctagg cacactgccc ccttgaatag acatttatg cacagttgca 1500
agtcagccaa tgtttttatt cagaagtatt tccccccatt atagtgcctg cctatcagag 1560
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ttttgctttc ctacaacaat tgttggccct tgatttcaag catgttgctt cataggaagc 1740
accagagtgc catctgctgc atttcaagag attgtaaatg tcatctcagc tggctcagtt 1800
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cacttgatt ttgtgtatag gaaatggcag cttccgattt ctagttaggatt ttgtcttgca 1920
ttgtttgtat aacttgctgg tcacccaggg ctatttgctt tttcattgag aaatttggtt 1980
ggggtgtcta gtccagcttt tatgttgatc catcctgact tatttttagac attgaattta 2040
tctcaccaca agtaaaagaa catgtgtatt gactgtcttt gctaagtttc ctaatttttc 2100
ctaattatgg caattatgga tgtgaataag aatactgatg ctgtacaaat atttttgtgg 2160
aaatgtacct tgtaaatgtg actattttaa taatatgaaa ataagaatac tcttgaagaa 2220
aaaattaaaa tatttactct ttggaaaaaa aaaaaaa 2257
```

<210> 509

<211> 701

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

360

<220>
 <221> misc feature
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (600)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (637)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (647)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (676)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (691)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (700)
 <223> n equals a,t,g, or c

<400> 509
 ccccaaagng ggcccgccctg aaagggccct aggnagtaca cctcctagga accctaagcc 60
 agagagaggc ttcactacat catgcttcct gacatctctc ccctttgaag agcagtcaga 120
 ctcttgcttt gctcttcaga cttaatttgg gggtttaaca ggtgagggtg ctgggggaac 180
 tcttttacia catctctctg aaakaatccg ggctgccagt ttcatttggg ttgggtgtca 240
 gtagcatgat ggaaagacaa aaaaacacaa cttgacatct gcagaaatgg gttcaaattt 300
 tacctgcaac tcaccaattc tgtggccttg gttcagcaat taaactccct aaaattcagt 360
 tttttctttg taaaatgggg ttatgaacag tacctacttc aaaatgtgtt tgtgaagatt 420
 aaaaaagtta acataaagag tttaraagag tgtctggcaa aaaaaaaaaa aaaaaaaaaa 480
 aaaagggcgg ccgctctaga ggatccaagc ttacgtacgc gtgcatgcga cgtcatagct 540
 cttctatagt gtcacctaaa ttcaattcac tggccgctcg tttacaacgt cgtgactggn 600
 aaaaccctgg cgttacccaa ctttaatcgc cttgcancac atccccnttt cgccagctgg 660
 cgttaattag ctgaanaggc cccgcaccgg ntcggccttn c 701

<210> 510

361

<211> 345
<212> DNA
<213> Homo sapiens

<400> 510
cagagtggaga cactgtctta aaaaaaatta aaaattgtaa aaaaatgaaa aaaaaagttt 60
tgagcattat ttgcatcatt gggatacata tgtcacttca caagatgttc aatttgaagg 120
aaataccact cattctctat gtcctgttgt ctgtagtggt cttcagtttt tcatattgag 180
ttgacctaaa tcctggattc atgacaagaa aggagtaagt actactattc attgttctat 240
ttgtttataa tctgtattat aaaattgcac ataattaaaa gctttccctt gtcttcaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 345

<210> 511
<211> 967
<212> DNA
<213> Homo sapiens

<400> 511
gacctgtcac tgcctcccgc cgctcctgc ccgcgccatg acccakycgg tgccccggct 60
ctcgtgccc gccgcgctgg ccctgggctc agccgcactg ggcgcgcct tcgccactgg 120
cctcttctcg gggaggcggg gcccccatg gcgaggccgg cgagagcagt gcctgcttcc 180
ccccgaggac arccgcctgt ggcagtatct tctgagccgc tccatgcggg agcaccggc 240
gctgcgaagc ctgaggctgc tgaccctgga gcagccgcag ggggattcta tgatgacctg 300
cgagcaggcc cagctcttgg ccaacctggc gcggctcatc caggccaaga aggcgctgga 360
cctgggcacc ttcacgggct actccgccct ggccctggcc ctggcgctgc ccgcgacgg 420
gcgcgtggtg acctgcgagg tggacgcgca gccccggag ctgggacggc ccctgtggag 480
gcaggccgag gcggagcaca agatcgacct ccggtgaag cccgccttgg agacctgga 540
cgagctgctg gcggcgggcg aggccggcac cttcgacctg gccgtggtgg atgcccagaa 600
ggagaactgc tccgcctact acgagcgtg cctgcagctg ctgcgacctg gaggcatcct 660
cgccgtcctc agagtcctgt ggcgcgggaa ggtgctgcaa cctccgaaag gggacgtggc 720
ggccgagtggt gtgcgaaacc taaacgaacg catccggcgg gacgtcaggg tctacatcag 780
cctcctgccc ctgggcgatg gactcacctt ggccctcaag atctagggtt ggccccagt 840
gagtgggctc gagggagggt tgcctgggaa ccccaggaat tgacctgag ttttaaattc 900
gaaaataaag tggggstggg acacacgaaa aaaaaaaaaa aaaaaaaaaa aaaaaagtc 960
gtatcga 967

<210> 512
<211> 532
<212> DNA
<213> Homo sapiens

<400> 512
tactatcggg aaagctggta cgcctgcagg taccggtccg gaattcccgg gtcgacccac 60
gcgtccggct cccggttcca ggcgagttcg cagctgcgcg ccgggtcctg gaggcggagg 120
ccgtccccgc ccgttgctcc cgcagtcccc gacgggagcg ccatggccca gccgcgcgcc 180
gacgtggagg gggacgactg tctccccgcg taccgccacc tcttctgccc ggacctgctg 240
cgggacaaaag tggccttcat cacaggaggc ggctctggga ttgggttccg gattgctgag 300
atcttcatgc ggcacggctg ccatacgggtg attgccagta ggagcctgcc gcgagtgtcg 360
acggccgcca ggaagctggc tggggccacc ggccggcgct gcctccctct ctctatggac 420
gtccgarcgc ccccgactgt catggccgcc gtggaccagg ctctgaagga gtttggcaga 480
atcgacattc tcattaactg tgcggccggg aacttccctg gccccgctgg cg 532

362

<210> 513
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (49)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (464)
 <223> n equals a,t,g, or c

<400> 513
 gcaaacagtt cttccattan tgaagcgaga ggaaaagcca taataattnc atcttcaccc 60
 actacccttc cagagctttg cttctcctcc acatttagcc attaaattgc atgaggattt 120
 ctcttcatca gggtcgcgat ggaatctttc ttatatatta ccctttccta catgtagcct 180
 tgaatgtcct ttccacaaat atgctccac ggctgggagc attttctttt cttttcgtca 240
 cctttgattt ttgggattag attaataggg gaaaaagtcc ctggctttaa agaaaacaaa 300
 agtagaattc ttcaaaaata aatttcatac tgggaacaga aaggaactaa atgcttcata 360
 aaacagggaa aaagaaatta agatcatcct agaaataaac taagatwaaa ataagtatac 420
 tgacccttgg ttggtagata aaaagatgac cagtcttgta ttgntttaaa attagataaa 480
 catggrttaa gcatgcaaag actctgkctc ttttt 515

<210> 514
 <211> 495
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (467)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (495)
 <223> n equals a,t,g, or c

<400> 514
 tctaacatcc tccctttgct gtyctgaaaa cttcacgtca gagtcatatt taaatgtgta 60
 attactgctc tttctcctgc ttataattca ttatactttt tgaatttgag gcttgtgttt 120
 ttatgaacct tgaaaagccc tctgctgccg gcctctggag ccaccgtctc cctgccctgc 180

363

```

tctctctctt gccgaggtgc ctgttaagct gcattctctc ctccacagct ccccgcttcc 240
tgcaggcttc ctgtctcact ttctttctgt gctccagagt ctaggcaatc tctkttgtta 300
gaacttccaa ttcaccaata ctttcttatg ttgygtctaa taagctacat catctgctca 360
ctgggttttt tatttcagtg attatagttt tcatttccag atattccata tgccttaaaa 420
acatctgcat gatactccat ggttttaact cccctgatga atactgngca ttttaaccatc 480
ccagcacgtg aggggn                                         495

```

<210> 515

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 515

```

attacaggca tgagccaccg cgccccgctg aactnatttt tttttaatga agtgcacgt 60
gttcccactt gcaactaaag ktcacatttg gtgccaggct gtattgcttc ytctcactgg 120
tgagtggcag ctgtgtctcc tttctgccag tccagcagtc ccagctgtca gtggcacctg 180
cataatgaca cgtctgcatt tccccccaat crgcrctgag cggttttggg aggaggaatg 240
cgactgcatg gcgcgctcgc tgcaacctca gtctgcagcc tgctagggac gcacggccac 300
actcctgtct ttcagcctca gtctgcagcc tgctagggac gcacggccac actcctgtct 360
ttcagcctca gtctgcagcc tgctagggac gcacggccac actcctgtct ttcagcctca 420
gtctgtagcc tgctagggat gcacgg                                         446

```

<210> 516

<211> 1175

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<400> 516

```

aattcggcac gaggtttctc tagaagtaat ttatgttata aggttatccc ctgagttttt 60
tcttactcac catatgtctg gtggttctca cagccagggg cactgagggg ctctgccctg 120
ggatctggag gccagcactg ttcacctgat ctccaccact gagatacctc tggctagagc 180
cataatcagg tggcccaaag gactgaacaa ggaagaatgg gagggcactc tagactaatt 240
aaggttgtct tttcagctca aagttaacaa tgacacacat gaattttcat atcagtataa 300
ttagatgcgg gtcccatcta attacagtgg gtcattatgg ctgttcgggt agagcagctt 360
gggtgctctg tgaccatggc atgtgcccg gtcaggacta gacaaagtca tttgcttggg 420
gaagctctct ccccttcagg tgtgaggcca ggagcacctg gtgtgggtcc tgtccctgag 480

```

364

```

gttctgtcct acaccaccct catgcaacac ctactacaca caggtgcaca gcgactgtca 540
caggcgcttc atgtttaagg atgggcctcc gtgtcataaa cttttttaaa gggatatatag 600
rgatagctta tgraatccaa atcaaaggtc cagagtttnc agcaaattgt acctacctat 660
ttgccaactt amctcaccat agaaagccaa aagattcanc ctgtggccag tctttcacat 720
tacagagttt aaagtacttt ttttaaatty ctattttatt tttacaaaa tatttaacaa 780
aatatagtat atctcatgtg ccagggtacta tttgtaatat ttataaacac tgatttaytt 840
aatcttcaca gagactcatt ttacagattg gaaaacagag gcagagagaa gttaagtaac 900
tttaatgtca ctcagctggg tagtatcaaa gtcttggtg ctggctccag agtctagacc 960
tttaaccact gtgttatgct ttccatgggt aaagcaacct aaaaaggccc ctggaatcag 1020
ttacatgtgg ttggagacta actctgtcat tgacttacta aatgcttgat attgggcaat 1080
ttatctaacc tctctctgca tttagtaagt caatgacaga gttagtctcc aaccactgtg 1140
ttatgctttc catgggtaaa gcaacctaaa aaggc 1175

```

<210> 517

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 517

```

ctaacatttt tttccttttt tttcccccaa aggatataat gtattatcta tcaaccactc 60
tctcagaata acttgtttgt tttatcatgt actgtgatag gttagtcatg aatttgcagt 120
taatgaaggg ctatttatct catgcctacc ctcacagggt ttctttcttt tttctttttt 180
gtgacggagc tcaactcttt accaggctgg agtgcatggg cacgatctca gctcactgca 240
atctccacct ccccagttca agtgattctc ctgcctcagc ctctgagta gctgggactg 300
caagtatgaa ccaccatgac tggctaattg tggttttntt tttngtttgt ttgtttgttt 360
gtttgttttt ttggcagcag gtcgggtgggt gggcagtggt tgtagagaca gggctctaca 420
ttgtgcccag gctagtctca aactcctgat gtgaagcaat cctctccgct cag 473

```

<210> 518

<211> 1508

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

<400> 518

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catcgaccgg gagctgagcc ctgagggccc aggcaaggag aaggagctgc ctggacagac 60
cctgactgg gggcccaggg ccacagaagc cgcaggctcg ggtctgcagc ccctgaagct 120

```

365

```

ggactaccgc gccctggccg ccgtgcccag cgctggcagc gtgcagaggg taccgtctgg 180
agcagctgga gggaagatgg ctgaatctcc ctgtccccc agtggccagc agccgccctc 240
cccgccttct ccggatgagc tgcccgccaa tgtgaagcag gcctacaggg cyttcgcggc 300
cgtgcccact tctcacccgc ctgaggatgc ccctgcccag cccccacgc ctgggectgc 360
agcctccccg gaggagctgt ccttcgggga gcggcagaaag tactttgagc tggaggtgcg 420
cgtgcccag gccgagggcc cccctaagcg cgtgtccctg gtgggtgctg acgacctgcg 480
gaagatgcag gaggaggaag ccagaaaact acagcagaaag agagcgcaga tgctrcggga 540
ggcggcagag gctggggccg aagcgaggct cgccctggac ggggagacgc tgggcgagga 600
ggaacaggag gatgagcagc caccctgggc cagcccagac cccacctcaa ggcagagccc 660
ggcgtccccc ccgcccttg gaggtggcgc cccggtgcgg acggccaaag ctgaacggcg 720
ccaccaggag cggctgcgcg tgcagagtcg ggagccaccg gcacccgagc gtgccctgtc 780
ccctgccgag ctccggggcc tggaggccga gaagcgtgcg ctgtggaggg cagccaggat 840
gaagtcattg gaacaggacg ctctccgagc acagatggtc ctgagcaggt cccaggaagg 900
ccggggyacg cgggggcccc tggagcgant ggccgaggcc ccttccctg cgcccacccc 960
gtcggccacc cctgtggaag acctcgggcc ccagaccagc acctccccgg gacgcctgtc 1020
accggacttt gctgaggagt tgaggtccct ggaaccatct cccagccctg gcccgagga 1080
ggaggatgga gaagtggctc tgggtgcttct gggcaggccc tcacccggcg ctgtggggcc 1140
tgaagatgtg gcactgtgca gcagccgccc ccccgtaagg cctgggcgcc gtggcctggg 1200
ccctgtgccc tcttagagga gcaggcacct cccccagact tggggtgggg gccctgccag 1260
ctccagcacc accttgccc caagtctttt aacctgggtg ttagcatttt aaagagacc 1320
cacaggagtt ctggcctgtg actaactaac tgccccaccc cagccgagac ctcggcgaga 1380
ctgtaactag tgatgtttgt acaaccaaag actctatttt gtggtttaag gagaataaag 1440
ttgactacat tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 1500
aaaaaaaaa 1508

```

<210> 519

<211> 592

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 519

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cctcactaag ggancaaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg 60
gatcccccg gctgcaggaa ttcggcacga gtatgtttgt ttcggttgaa atttttcctt 120
aagtgtcttg tgatccctgg atttctgctc ataattaagg aaaagaatgc tgactcactg 180
gaccaggca gggcttctct cccagattgc aggettgcct cggggataca cgggtttccc 240
aatgctaga atgaaaagag attttatatt ggcttgctaa catcaaagat actagtttct 300
ccagatggtt tatcagaac actgttgctt tatttttatt tgtctgagat taaatgtctt 360
cccctttaat taaagggagg tctctgatga agtaggtttg ggaactgcta ccttggtgac 420
agcttgagtc tttcctttag tgaagtgcag cacaattcca cgtgcacggt gaccttctct 480
tgattagggt gccttggaat gtacagaacc taacttgaat atacagcact ggtttcttgg 540
taagragtgt acagtgatct aaacttgcaa accaaaatac agagatgatg gg 592

```

<210> 520

<211> 568

<212> DNA

<213> Homo sapiens

366

<400> 520

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gctgcagcct cacagactcg ctgagtcgct cctgcagaaa ggggggggaga gagatcgaaa 60
agcaggggag ggggacggca cggccgttta cctgtctgcc tcctcattcg ctctccccc 120
tcgttctgct cactcctggt gtcagcctat ccgccttccc aaaccctccc attcccccg 180
tgtagccccc cccttcaactt tccttctcgt cctctgtggt tctcctctct tctttcttc 240
cttccccctc tagcattgct accttctctc ctacacgcac gcaggcatat aaacgtaggt 300
ttttgatgct cctctgcctg ttgaccccg c tattttcatg tttccaacag gtttttcttc 360
ccccagtccc tcagctgctg ctgctgctca ggaggtcaga tctgccactg atggtataac 420
cagcaccact cgggccacc tctgccaaga aggagaaagt taaacagcag cagcagtagc 480
agcagtaaca gtagtaacga gagagaagac ttgmttcca cctcttctc ctsttcact 540
cctcctttac aaccaggga ttcggcat 568
```

<210> 521

<211> 987

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (934)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (968)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

367

<223> n equals a,t,g, or c

<400> 521

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tcttcaactaa gggatcaaag ctggngcnc accgcggtgc gaccgctcta gaactagtgg 60
ntcccccggg ctgcaggaat tcggcacgag tttttttttt ctttgtgaat tgaatgtacg 120
atacaaatgg taggccttca tgtgagccag ttactacatg antcttcatt tcccacagtg 180
gtttgttcat tcatcagcgt taggcttggg cctgggtcca cttttctcct ctccgggcac 240
tgacccacc tttccgtgta ttactgtag gctattaaat atgacatga cccgccttgc 300
attttcattc atcacctgtt tatgccccaa tttaaaggaa gtttgtctca ttttgccaga 360
aaaaaattgt aatagtcggc acgctggatt tgtagggcc gcaaaattgc ggcagtgaaa 420
ctagtttcac ttctaaagcc cttcatttcc cacaaggtta agctctcgaa accccatttg 480
atccttgggt cctatttctga tcctccttgg gaactctgaaa atcgggtctcc atgttgtatg 540
cagattagaa gttgccttgg ttgttactct tccaacacag ggtatcaggg agaaagaggc 600
cttatctgtt cctccatccc ccctgttttg acagactgct aagaattcct caggacttcc 660
tttggttggg gattttactt tccccaaaag ctgatctgat ttctttcagg ggtagacaag 720
cttgtcctag tgstctgstt caggtcttat cagaaggaaa cccagggaat aggaaaaggt 780
aggatgcctt gacttttgtc cctgttgtgg gggacttaaa gtgttttttg ccagaattgt 840
tcaaaagctc cggtttcaaa ctctgtagga gttttcatgg ggaaaaacaa aacaaaacaa 900
aaaaggtggc ttattcgtcc ccggagatgt tgnagtaag gttcttccag cacggccttg 960
gggttttncc caantgggga agccaag 987

```

<210> 522

<211> 1155

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<400> 522

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tagtgtcntn tgntggaacc ggnctcacta tagggaaagc tggtagcct gcaggtaccg 60
gtccggaatt cccgggtcga cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca 120
cgcgccgca acaatatcct tatttttaggt gccactagca gatgtaagcg tatacttagt 180
tgccgttaga tgtgacagaa tgagataatt tatgtaaagc agtagagtag ctggcacaaa 240

```

368

```

gcaaacaata aatattattg ttattgttgt tataattgta aaatgaatga cttcaaaaac 300
atagtcccag tttggagggg ttttgtgatg cagaatatct aagtcataga aatagaagac 360
aggtggaata agtatatgtt cagagttttt agatgtgttg agtagagacg gkaataatgg 420
aagcattaaa tacaaatgaa aatcacacca gatatccctg raattcaagc aaagaaagtt 480
catcatgtat tcttgggcag caagagaaaag gactaggggt atggcaatgt gtggaaaagt 540
tgaggcttgc taagggttga gatctgttgg tagccctggw tcacatgggg tcagcaccag 600
gcagtgscty tgaaagcgga garaggctct ggacttccct tgkgkataac agttcctagt 660
gtccaacaat gaggaaygg tgaagcatgg ttacaaaact gtgacaaaaa tatttacatc 720
tagcactgtt accactcaca tgccaaacat tggctgcaca cgtgcagctt atttgtaatt 780
aacatcaaaa gactagatct gaagccttcc ataaatgaga ggccattcat atggcattcc 840
tggaacaaaa cactgcacag gtaccagcct ctccactcct gaccgggttg gtgctgaaca 900
gtcagggatt gttcttgaac tagacttctg atgcttcttg caatcttctt tcatctttcc 960
ctgaaataca caaaataaac aaatacaata acaaatagta attaaatgac tttcaggata 1020
acatctagtt gttcagactt cacccttcac aggtgtgtgt gtatgtgtgt ttatgtytgt 1080
atattgaagc aatttgaatt tatttactgt atattttctg agtaaaagac tgaaatgaac 1140
tacttggttc agaaa 1155

```

<210> 523

<211> 529

<212> DNA

<213> Homo sapiens

<400> 523

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agttctgctt tttcgtcctc taccagtctg attaattegt aggettaaca cttccttttt 60
ctttctcctt ggaatgcctc ttgggatatg cattagttag tcttatgtct tttcttggtc 120
taggtggtgt gtgtgttttg cttgtttggg gcacttttag aggetccagc tgcacatttc 180
cactcctctc tgtgtgttcc tctctgcac tgctgtttgt gtgtgtacac tttttttctg 240
agcaatcttt ctcccttagcc acattgagtt ctttaacagt tttctgtttt tcttcttcat 300
taagataatt aataatcata ctactcacat atcatgtttt agaacttcc t aagcctttcc 360
ctttccacc ttttggaact cctaactgaa tttcaaagtc tctrttctt agattaaaaa 420
aataaatcca aagataaaag aatgtaatgt cttataagtc gtatcagtg atatttttctc 480
tgttattgtt gttagtgtta taataaatcc taagtgcac aaaaaaaaaa 529

```

<210> 524

<211> 1981

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 524

```

catgtttgac catggtaata tcttttacta cctggaccat ttaaatttcc taaatgngaa 60
aggtatatat attmctgtaa ctgtagaggg aaaagggaaa gtatttggtt ctaaaaaatg 120
ttagccttcc tcgtaaaagt agcacaagcc cacttatgaa tcaactgagaa aaagtgaana 180
acttgagttg gcaaagatgc agagcagcag tgcagatggc aatgaactct ctgaattctc 240
ttttacctta tttagaagaa tgcagagtaa agggaccttc ttggttctgc aggaacttct 300
caagggatga ggagacagaa cccctacttc caagtgtctt atttgtatta cccagatgac 360
tgaagcttaa gagaaggcag ggaagtatac aagcagagcc agttctggta caaacaaaga 420

```


369

```

atttgacagg gacaatggaa ggggtcttctt caccactcct taccttctat gtgatggaaa 480
gactagagct tataaaaagta cttccatttt tttattctcc tgaataccaa aggcaattaa 540
agtcagctac aaatgacttg ccagtggtcat gttttatttt tgttatagat ttttaaatta 600
tttccttcaa gatcagttct tatcccatat aatgcttagc ttccaagaat attctttact 660
ttcttctgtc ttttacagct ctttgcatth tgtagacctt aatactcagg tttaatattc 720
attgcattta taagatcttc tgcaaaaagc ccagaaatgg tccttttcag gtgcctcttc 780
aaagagctga caccttacct tgtgcctttg gcaaaartgtg cagaatagat acatcagttg 840
gtgcataatc gaaaaaaata ggaattttga acactgttct tccttctaca tttatttctc 900
ttcatttttag aatcacactt tttatgttaa accagattat tattattatt attattcaac 960
cagtattaag ttgttaaaac caagggaatg gggccctaac caaaaagaag tctcaactca 1020
gaaaaataag tccccagtca ggtgggttctt actttcttgt gggttgcaca ttttgtatct 1080
ctctaacatc agcgtattcc tgactttaag caggtgttta tatgtaaaat aaaacctggg 1140
tatcgaaggg aaatgcattc tttttatgga gtattgacct tgatcctcta tgatgtcata 1200
tagagcaact cagggctata cttgctagat tttaaccaag cagtttgaaa tattaatcat 1260
cactctctca tcttctccas tctccattgc caaagtcttt gtcaaaactc caaatttggt 1320
gataaaagat tgtgttttgc attctcattt ataatgcagt ttctccttaa gcctggagtt 1380
ttttgaatga gtgcatgagt aaatgagaga atgtgtgaac gaacatttat gaagtatcta 1440
acatgtgcca agcattgtgc ctggcacttt caatcattag aatgttttat gtgattccac 1500
agcattttct gtatragagt agctcacaaac attttaaatg tttccaatat gaatcgtgtt 1560
acaaaattct taattttata tttcatataa attaaagagg aaaaagaaaa ggtttataat 1620
atattttaaa acaatgtgtt actrtataat acaactataa ttgtagttaa taactaaaac 1680
ctcttgaaaa tgtcaaagaa atacttgatt tctgatgcaa ctttgactaa aatatttact 1740
ttagaaaata aaacgttctt attttgctat atcactttta ttgcataatt aaaaagcagt 1800
gttttataga aatgctgggt attttatatt caaaaagatt ttgtcacata attcatgggt 1860
aaaacttgca gttgtaaatt gtgtctgtct tggtagggc cctattaata gtcccatgct 1920
gttaaatata aagaaaaata tactaaaata ttcaaagttc caaaaaaaa aaaaaaaaaa 1980
a 1981

```

<210> 525

<211> 1570

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1533)

<223> n equals a,t,g, or c

<400> 525

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gcccacgcgt ccggcctcct gagtagctgg gactataggt gcccgccacc actcccggcc 60
aatattttgta ttttttgtgg agacgggggt ttgccatggt ggccaggctg gtctcaaact 120
actgggctca agtgatccac cctcctcagc ctcccaaagt gctgagatta caggcatgag 180
tcaactgcgtc cagcccaacc ctctcttttg atgtgaaagt atcacctttt gtacatttag 240
tccataccca atatctcttt gcctccttta gtgcaaagtt actcactcct acttgtatct 300
aagagaatct ttcctacttt ctgagtgggc actagttttg gagtatatat attgtatgcc 360
atgaactata tttttctgct tatggctttg cctcatttaa ttgccatagc acttacatgg 420
ggcagggtatt cattttcctg cttagcaaact aaggaaactg aatttcagag atgtcaggta 480
acctgcctac ttcacacact aggagttttg atgtttaatt ttgaactaag atctatctgg 540
cttgaaagct ctttgcatth aacaaccttg aacaatatac ttggaacgta ggtgtgtttt 600
tggcacagaa catggcatgt gtgtgagggg ttgaacacag acttgcccag attcaaactt 660
accaatcttc tgtttcatgt gcccagaaga aacagcctgt ttctcagcct caaacccaaa 720

```

370

```

cttctagttg tcttgattgg ttcagcctga ctgtccaact ctgatttata gctgtgattg 780
ggggagctga gattacacag tgtaggcagg cagaagggcc ccaggcctat tgatatgggt 840
gaggacaata ctacgcact cccttcactt actcactctt ccaaggctct ggcttgaacc 900
caatTTTTTT tgagagaata aaccaggctt tttgttctcc acttggcctg actccatttc 960
tggcattcca gccatgtatt tagctgttat cagctttcag atttagasaa agccttgttt 1020
ccaataagct tgtttctctg aagtaattgt taaaatataa ttttcagaaa aagggttaa 1080
catgactcat acaaatataa aaatgaacat gtgctaaaga tttttatttc actcatgtga 1140
tatgaagtaa ccagacagaa gttataacca gtacatatgg aaagtcaaaa agcacaaatt 1200
catatgtagt aaaggaattg gattgcaaat gaaggcaaaa ctgttttttc tacagggtgg 1260
agggagata atcaaaatgc tagaaccaga atttscatgc ctgtcactta gcttcaattt 1320
acaaaagccc agaataactc aaaggcaaat tctagccctg caaatatcag ccctaaagct 1380
gtgctgtggc cagtgcatag ttttctattg aagtacaatt tttcccca atacattatc 1440
tctcagaggg agtccaaatt gcttccctt cactcagcag atctgttcag tcaacagatg 1500
ttaaatagct acagcgtatc aggcacaaat aanttcctta taaaataaag taacaaacta 1560
tatgttgttt 1570

```

<210> 526

<211> 1084

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 526

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caatTTTctag taggaagaga ataattacat ttgcnggggg ggggtggataa aaacatgtct 60
gcttctcatt taaataagag agaaatgatg ccgtttttta aatgtgaagc agactataat 120
tctcagctct cttttcttct tagccttaaa ttaatatctt ctttcttcta gttttggaaa 180
gtgtagtggg aatattcaga caaaagaggc cttttccat ttttaaagct tcttactgg 240
gaaacagccc agttgtagta ggtgccagtc agtcaaggca ggggcctctc tccgtcaata 300
tggaaaactc agcagttttc ctctccccc gttgtgttct tgtaacgttg ttaatgggtt 360
cctttgcttt ttgctttctc cttttctgaa aatgtatgtg ttttgctct cttttggcta 420
catcttcaaa atatttcttt tgtgcctatg tacatgtgta aacatgccat agcatgtgtg 480
gtaggtgtcc tgtattttgt ttgggaaaaa aactatcaaa atgaggaaga gaatttcccc 540
tatttatgca ctaggtttct gtgcttttct tttgagttct ctggagtaga tattaatttg 600
ataccttcat ggtaatgaaa ttatgatgga gctgtgttat aaattcctta tgtcagaggc 660
cagtgcggta gcctttgtcc cttcatgctt ttcaattctg agtgggagga aaagcaaaaca 720
tcaaaacagt gcttcagcca aattccatat gtaatgccat tgggagagta ttgactaaaa 780
tatcattcgt cagggaaata tagttgtaat atttttacag gatattccta ggtaaatgaa 840
ggagccttca gttgtaaatt tcaattaccc caaaatgtat ttgctacatt ttgttgtttg 900
aagtattacc tcttaacctt ctttgtaaat ttttttcatt ttgtcttata tagtccagtt 960
ttccaagata agctcagtc tttttcaaat gtcmtctttt taccaatact ttttcattaa 1020
attatgaaaa ctgctaaaaa aaaaaaaaaa acaaaaacca agtacctgcc cgggcgggacg 1080
ctcg 1084

```

<210> 527

<211> 1506

<212> DNA

<213> Homo sapiens

371

<220>
<221> misc feature
<222> (1491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1502)
<223> n equals a,t,g, or c

<400> 527
tatagaaggt agcctgcagg taccggttcc gaattcccgg gtcgaccac gcgtccgact 60
aaaggcagca agggattgta aactaatctt acatagtcaa tgtttcatag aatgctttgg 120
ttacaatcag gttttttaa gacttttaaag gttttttgta tgctataata tatgcttatg 180
atttctaaaa attatgcagt atacacaaaag ggcataaagt caaaaagtgt gtctccctct 240
gtgactttat tctcataccc cagaggtata taatttcttg tattcttggt tagtctttaa 300
gaaatgttat cgtttatatt atatatggct ctctctctgt atgcctcttc ctgttcttat 360
tttaaagtgt caagtttggt acttggttct tgtttaactt ggttgctttt ccatattgcc 420
accttccagc tctaacatta atgtctccag gattccatta tatggatgtc cctttggaga 480
acatttgttt atagactttt ctactaaaaa tattgttata atgataatat ccttatgcat 540
atatgaagat tactcttgat tctgcctgac tggaaacttt attaataaag tagacattat 600
tctattttga ggctcaccag ctgtgtaggt atgatcttgt gcttccattt aagaaattct 660
tccattttaa gaagaaaaaa aatctctcta attgactatc tgaagatata tgaaaaagcc 720
tatgctttta aattaaactg ttaagacagt ccattgaaag attgtggaag ttcacatcta 780
ttttgcacct taattttttc attgtcccta ctcatgactc taaaaagtgc atggccttggg 840
gctatacttt gttttgcagt ttgttggtat cgtgcctttc cttatctaca ttagctttaga 900
ctatacctta tttttaagaa gagaaagtgg aaattaactg tggcaaaacc tattttggca 960
caaccacatt tgttcattat acaaaattag cttcctatgc tttagaaaaa atgtgagtta 1020
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gtctttgctg ttagtcaagc acaggatttg ttttctgcaa agttttattt tcaatgaaga 1140
atacttgtcc taatagctca taaaaagtac ctttgcactt taaatcctag gaatagggaa 1200
caaggaaact tactgggaag ttcaaaaagaa agaataacag gaccttctag tcagcagggc 1260
atgtttggaa aatgttaata cgccatgatt tttgaagacc aatttttagtt caggaggtgg 1320
ttttaaatat tggatgaaaa cttacaggct gttttcaata ttcatttctg aaatacttta 1380
gtatgataga taaatttgggt taagttcttg ttcattgtga aatactgttg gaagaatttt 1440
tttcaaaaata aagacttctg aattttgtgta ccaaaaaaaa aaaaaaacc ncggggggggg 1500
gncccg 1506

<210> 528
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature

372

<222> (315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<400> 528

```

ctgcactaca cacgtgttgg tacctattag caaactgcgc tgctctaacc tgccacctat 60
ccctttgccc caacacaact acggttgcca cegtgccac aacaattcca actgtaacac 120
tggttaattgc gtactctgcc acaaatagcc cttgcgggag caccagcatg ctgggcctgc 180
ttgcgttgcc gtctatgtcc acatatatgg cggcgagcgc ctacacaaca nctcttttaa 240
ccttcacgtt ggtgggtaca ttaaacttgg ccatcgtacg cttactcagc agcaacagac 300
ttacctgcaa caantccan t                                     321

```

<210> 529

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<400> 529

```

gtgggattgc aggcacccac catcatgccc tgctaaattt tgtacttttg tagagatgga 60
gtttcaccat gttggtcagg ctgggtctga actgctgacc tcaggtgatc tgcccacctt 120
ggcctcccaa agtgctggga ttacaggtgt gagccaccat gcctggactc nttgttggtg 180
ttgtttttaa ttagtgagga gctacaagaa cacatttata aaaattaaga ggaaacagcc 240
cactgcatt tgagaagggt accatttcct tgaagttcc tgctgttgcc cttcctggt 300
gggggagaca ctgtcctgtt tcagtcattc cgttgctttg ctttatagtt ttattaatgt 360
gtttgtgttg gctttgcatg ttttcaaata tatgaatgaa atcatgcaga gtttattctt 420
ttacagtttg ctttttcaact tgattatgtt cctgagatgt atccggatta ttgtgtgtag 480
ctgtatggca ttccttttcc ctgctgccta gtgatccatt gaaaatacaa taattgattt 540
ttctatgttg ttccactggt catttttctg cccctgtgcc ctttggaat catctcctaa 600
actctagtct cgcccttgc tcttccatgt aaccttgaga atcagcttgt caaattcccc 660
caaaaaaccc cttgagatgt agaatgkaac ccagctgaat ctatagrtca gtctggataa 720
aatcagcacc tgtgtaaaat tgaattttcc cattcatgag cagggtttat ttctgcactc 780
aatgttttca ataaagttgt gtaccttttc ccat                                     814

```

<210> 530

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

373

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<400> 530
ggactgagct cggcgccctct agtgtagatg gggtttttaat tttcccagct gaacgtcggt 60
atttggattg tgatttcttt ggtgwttcaa tggactgtag atgaaggagg acctgttttc 120
tctcaggagt gtctgtgggg tctcttgctc tggtttgctc agtgaagtgt ggccccaagg 180
gctgagggag gtggccagga ccccgaggg tggcccccac cacagaggct gctgtcctac 240
gggttcttct ccantttctg ggaccttgcc gangagcctc tgggagggng aaatggccac 300
aggcctggag aatcgacacc cgggtgg 326

<210> 531
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

<400> 531
gggcctggtg ggcccgtgc tgggtgtgcag ggctgggtgcc ttgggtgcag atggcaagca 60
gaaaggggtg gataaagaat tctttcttct cttcactgtg ttggatgaga acaagagctg 120
gtacagcaat gccaatcaag cagctgctat gttggatttc cgactgcttt cagaggatat 180
tgagggcttc caagactcca atcggatgca tgccattaat gggtttctgt tctctaacct 240
gcccaggctg gacatgtgca agggtgacac agtggcctgg cacctgctcg gcctgggcac 300
agagactgat gtgcatggag tcatgttcca gggcaacact gtgcagcttc agggcatgag 360

374

```

gaaggggtgca gctatgctct ttcctcatatc ctttgtcatg gccatcatgc agcctgacaa 420
ccttggggaca tttgagattt attgccaggc aggcaagcca tcgagaacan ggatgaaggc 480
aatctataat ggctccaatg ncctggggcac caagccaccc ntggcaacgc ttccaacttg 540
caagaatcta ctatttcatg gcan 564

```

<210> 532

<211> 616

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (616)

<223> n equals a,t,g, or c

<400> 532

```

gttccaggaa ccagcaaaca agaggctgct cccgcaggag gcagtgtgaa tggagaaaga 60
aggctgcagt aggggctgct gctggactcg gtggggagca ggtgcaagga gctctggctc 120
ccccatggac ctgagctgga gagcagagng cagctccagc ccattcctca ttcttccagg 180
gcacagtcct caggatgttt cggggagaat aggagccaga acctgagccc ctaagccatt 240
cccctcacca atgatggggg cccagtgag tcatctgctg gccggcttct gtgtgtgggt 300
cgtcttgggc tgggtagggg gctcagtcce aacctgggcc ctgctgagca ggagcagaac 360
cattacctgg ccagctgtt tggcctgtac ggcgagaatg ggacgctgac tgcagggggc 420
ttggcgcggc ttctccacag cctggggcta ggccgagttc aggggcttcg cctgggacag 480
catgggcttc tgactggacg ggctgcattc ccagctgcag acaattccac acacaggcca 540
cagaaccctg agctgagtgt ggatgtcttg gcagggatgc ctctgggtcc ctcaggggtg 600
ggtgacctgg aanaan 616

```

<210> 533

<211> 649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (644)

<223> n equals a,t,g, or c

<400> 533

```

ggccagcatg gatcctgaca gtgatcaacc tctgaacagc ctgatgtca aaccctgctg 60
caaaccccgat atccccatca tcatagcact actgagcctg gcgagtatca tcattgtggg 120

```

375

```

tgtcctcacc aaggtgattc tggataaata ctacttcctc tgcgggcagc ctctccactt 180
catcccagg aagcagctgt gtgacggaga gctggactgt cccttggggg aggacgagga 240
gcactgtgtc aagagcttcc ccgaagggcc tgyagtggca gtccgsetct ccaaggaccg 300
atccacactg caggtgctgg actcggccac agggaaactgg ttctctgcct gtttcgacaa 360
cttcacagaa gctctcgtg agacagcctg taggcagatg ggctacagca gcaaaccac 420
tttcagagct gtggagattg gccagacca ggatctggat gttgttgaaa tcacagaaaa 480
cagccaggag cttcgcatgc ggaactcaag tgggccctgt ctctcaggct ccctggcttc 540
cctgcactgt cttgcctgtg ggaagagcct gaagaccccc cgtgtggtgk ktggggagga 600
ggcytctgtg gattcttggc cttggcargt cagcatccag tacnacaaa 649

```

<210> 534

<211> 723

<212> DNA

<213> Homo sapiens

<400> 534

```

tcctctaaca cattcagact acaagtccag acccaggaga gcaaggccca gaaagagctg 60
gaaaggcagc tcatcatgca gagtgaatg agggaaagac aaatggccat gcagattgcg 120
tggtctcggg aattcctcaa atattttgga actttttttg gccttgcagc catctcttta 180
acagctggag cgattaaaaa aaagaagcca gccttcctgg tcccgattgt tccattaagc 240
tttatcctca cctaccagta tgacttgggc tatggaaccc ttttagaaag aatgaaaggt 300
gaagctgagg acatactgga aacagaaaag agtaaattgc agctgccaag aggaatgac 360
acttttgaaa gcattgaaaa agccagaaaag gaacagagta gattcttcat agacaaatga 420
aatcatgctt accaatcaaa tctcaaagca cagaattatt gacttgaatc atggttttta 480
cagtttttta aatgctcaag attttgatat tatagatttt attttaaaat attaaaatgc 540
aagatagttt tgagctattt taaaataaaa ttataacat tcaacacaaa atcatggagg 600
tgctctaaat aactttttaga ttctctctct ctgtgtgcat taccaatatc taagtgtaaa 660
attaataaat tgttttgaat tcctggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaa 723

```

<210> 535

<211> 796

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (742)

<223> n equals a,t,g, or c

<400> 535

```

gattggaagg cgtgtttccg gctggactga aatcctgtga ggaagattcg cgccctcccc 60
gccccctgcc ctccctggga atcctctgaa gatgcggccc cctgtccttc gtgaaccggg 120
agccccggcc tcggccccgg cccagcccct tccggggggc gaccggggct gggacttcgg 180
gggtcctagc ctgagcccg ctcggggagaa caggccccgg cgctgtgggg aggggcccgcg 240
cgctatcctc gccggggggc ctgggaggcg aacacgtgcc cgccgcccc gacctgcgcg 300
aacttcgtcg cgccartctt ccggcaaaag gtctcttttt ttagtttag gtaaaataaa 360
atctcccaga gaaaacaaa cggggaagg agccccctt ctgtgaaacg catgccatct 420
tctccatttg tcagtttgat gctgtaacgt acatgggggt ttgcaagagc ttcaaaactg 480
tctgcagacg tcaatttcgc ccctccccct gtgagaactc gctacgtarc cagcaactgt 540
gtagtgttac aaatgatgaa aacgatcaga aatgcgatta ggtgtcgggg aaaaaagggt 600

```

376

```

ttccccctgkt tttaacttgk atttttactt taattggtac aatcttgata ttcttaacgt 660
gactttttttg ggaaaccacc aagtgccttt taagcaagga gttactggta tttatgccct 720
taatattcct tcattatagg cntattgaat acgttaatat ctcagtaagt gtatttgaat 780
tataattgac tggctt                                     796

```

```

<210> 536
<211> 1135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1107)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1123)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1129)
<223> n equals a,t,g, or c

```

```

<400> 536
cggacggtgg gncgncgaca caatgggccca yggagttccc gttcgatgtg gacgcgctgt 60
tcccggagcg gatcacggtg ctggaccagc acctgaggcc cccagcccgc cgacccggaa 120
ccacaacgcc ggcccgtggt gatctacagc agcaaattat gaccattata gatgaactgg 180
gcaaggcttc tgccaaggcc cagaatcttt ccgctcctat cactagtgca tcaaggatgc 240
agagtaaccg ccatgttggt tatattctca aagacagttc agcccgaccg gctggaaaag 300
gagccattat tggtttcata aaagttggat acaagaagct ctttgtactg gatgatcggtg 360
aggctcataa tgaggtagaa ccactttgca tcctggactt ttacatccat gagtctgtgc 420
aacgccatgg ccatgggcga gaactcttcc agtatatgtt gcagaaggag cgagtggaaac 480
cgcaccaact ggcaattgac cgacctcac agaagctgct gaaattcctg aataagcact 540
acaatctgga gaccacagtc ccacaggtga acaactttgt gatctttgaa ggcttctttg 600
cccatcaaca tcggccccct gtcctctctc tgaggggcaac tcgacactct cgtgctgctg 660
cagtcgatcc cagccccgct gtcacagcaa ggaagctgcc acccaagaga gcagagggag 720
acatyaagcc atactcctct agtgaccgrk aatttctgaa ggtagctgtg gagcctcctt 780
ggccccataa cagggccccct cgccgcgcca cacctccagc ccacccaccc ccccgctcca 840
gcagcctggg aaactcacca gaacgaggtc ccctccgccc ctttgtgcca gagcaggagc 900

```


377

```

tgctgcgttc cttgcgcctc tgccccccac accctaccgc ccgccttctg ttggctgctg 960
accctggggg cagcccagct caacgtcgtc gcaccagctc ccttccccgc tctgaggaga 1020
gtcgatactt aacagcttac ccttctccct gccctggggg agacctgggg gtggggcagg 1080
ggaaccctt ttcttgagga acctttttagg acccattttt ttn cattng cattc 1135

```

<210> 537

<211> 1234

<212> DNA

<213> Homo sapiens

<400> 537

```

gactagtctt agatcgcgag cggccccctt tttttttttt tttttttttt tgttttttgg 60
ctctttcaaa ggtaatggcc catcgaatgag cttttttaac atactccata gtcttttctt 120
gtggtgttag gtctttatatt ttattttttt cctggggggt ggggtggggg tttgtcatgg 180
gggaactgcc ctttaaattt taagtgcacac tacagaaaaa caaaaaagg tgatgggttg 240
tgttatgctt gtattgaatg ctgtcttgac atctcttgcc ttgtctcctg gtatgttcta 300
aagctgtgtc tgagatctgg atctgccccat cactttgggt agtgacaggg ctaattaatt 360
tgctttatac attttctttt actttccttt tttcctttct ggaggcatca catgctgggtg 420
ctgtgtcttt atgaatgttt taaccatttt catggtggaa gaattttata tttatgcagt 480
tgtacaattt tatttttttt tgcaagaaaa agtgtaatgt atgaaataaa ccaaagtcac 540
ttgtttgaaa ataaatcttt attttgaact ttataaaaag caatgcagta ccccatagac 600
tggtgttaaa tgttgtctac agtgcaaaat ccatgttcta acatatgtaa taattgccag 660
gagtacagtg ctcttggtga tcttgatttc agtcagggtt aaacaacgga caataaaaga 720
atgaacacat tctctgtgtg tgattcactc ttgtctaaat gtcccaacct gtgacttctt 780
tactttccac accactaatt atccaagatc ttgaagaagt attgaacctc taataggcca 840
tctcttgcca gatcagtaca gtgaacagca tcttggtatc tagttttacc aaagattgct 900
ctgagagttc cagggcgtaa atgcccggca atttcaggat cagcagggtc acaaaattct 960
cgaaatgtct ttgtagcatt attctgttga atctccattg ctacacaagg gccagaatac 1020
atctctgtca ccatgtcatg atattcggtc actactcctt tataaacttc atagaattcc 1080
tcaacattaa cccgatccat attgaacatc tgcatactg agatttcaaa acctgcatct 1140
cggatagcca tcaggatctt tcccaacagt ccttcactga cagcatgggg ttttaacaatg 1200
caacagggtac aattagtaaa tttagcagtg tttc 1234

```

<210> 538

<211> 1539

<212> DNA

<213> Homo sapiens

<400> 538

```

gcaaaatgtg attatgtttg ttggattgca agggagtggg maaacaacaa catgttcaaa 60
gctagcatat tattaccaga ggaaagggtg gaagacctgt ttaatatgtg cagacacatt 120
cagagcaggg gcttttgacc aactaaaaca gaatgtacc aaagcaagaa ttccatttta 180
tggaagctat acagaaatgg atcctgtcat cattgcttct gaaggagtag agaaatttaa 240
aaatgaaaat tttgaaatta ttattgttga tacaagtggc cgccacaaac aagaagactc 300
tttgtttgaa gaaatgcttc aagttgctaa tgctatacaa cctgataaca ttgtttatgt 360
gatggatgcc tccattgggc aggtctgtga agcccaggct aaggctttta aagataaagt 420
agatgtagcc tcagtaatat tgacaaaact tgatggccat gcaaaaggag gtggtgcact 480
cagtgcagtc gctgccacaa aaagtcctat tattttcatt ggtacagggg aacatataga 540
tgactttgaa cttttcaaaa cacagccttt tattagcaaa cttcttggtg tgggcgacat 600
tgaaggactg atagataaag tcaacgagtt gaagttggat gacaatgaag cacttataga 660
gaagttgaaa catggtcagt ttacgttgcg agacatgtat gagcaatttc aaaatatcat 720

```

378

```

gaaaatgggc cccttcagtc agatcttggg gatgatccct ggttttggga cagattttat 780
gagcaaagga aatgaacagg agtcaatggc aaggctaaag aaattaatga caataatgga 840
tagtatgaat gatcaagaac tagacagtac ggatgggtgcc aaagttttta gtaaacaacc 900
aggaagaatc caaagagtag caagaggatc ggggtgtatca acaagagatg ttcaagaact 960
tttgacacaa tataccaagt ttgcacagat ggtaaaaaag atgggaggta tcaaaggact 1020
tttcaaaggt ggcgacatgt ctaagaatgt gagccagtca cagatggcaa aattgaacca 1080
acaaatggcc aaaatgatgg atcctagggt tcttcacac atgggtggta tggcaggact 1140
tcagtcaatg atgaggcagt ttcaacaggg tgctgctggc aacatgaaag gcatgatggg 1200
attcaataat atgtaaagaa aatgccttaa tataaactga ctcagttgaa tacctaattt 1260
gctgagacct cagcgtttcc cttctttttg cgaattgggg agaaagtgt tttttcttgc 1320
ttatcatgca ctctttccct tttttctcgc ccgcttttcc cctccttttc tttttccttc 1380
cttcttttcc ccttttaata taaggggagaa atacatgggt tttgtggaaa tcattatatg 1440
tttgcttttag attttcttct gttttcacca tcataacact taagttaa at catgatgtaa 1500
aatttttagta cctcggccgc gaccacgcta agccgaatt 1539

```

<210> 539

<211> 788

<212> DNA

<213> Homo sapiens

<400> 539

```

gagtctcata tccttgact tcagtttttt tgtgtgtgaa tactatccct ataccactac 60
ccctaaaacc tcagaattat ttgctttatt ttttcataca acttggggaa gggaaccatg 120
ggagtatgca catgggatca taatccattc tgtgggttgg aaaaagaaaa tgtaaacctc 180
tgcttttagag ggtagctact agctttgttg gggataaaaag tgtaatacat gcacttttga 240
actctgaaag ttgccaatc tgaaaagggg tgtttctgaa gaccactatc ttttacgaac 300
acttaaaaat aagtgtttgc agttgtgtat gggcacgata ctgtattctt tacattttta 360
tggccctaca gctacttctt atccctgcaa gtatataaat taaaaccaag tcactttaga 420
acagctttga aactagagtt tcaaaggtaa aaggatctca tgtttctgaa tctgcgtaaa 480
gcaagatggc tgtgatttga caggtttaat tgctagkttt tatagggtgga tagaaatgaa 540
tagtttggag tcttttaaat gttttaaaaa atgtttgctt actatctata tatatgacat 600
tattcccaat tagttttata tctccaagat atatatatgt atataggtat atacacatat 660
gtatatatac atagtctata tattctatat aagaatatat tccaataaga atatattcca 720
tacgggaata tattagtcac tgatgtattt tgccggtaaa attaaaagat attttaacaa 780
aaaaaaaaa 788

```

<210> 540

<211> 874

<212> DNA

<213> Homo sapiens

<400> 540

```

ccacgcgtcc gcgagcgcgt gggcgagcgc gtgggaaaaa agctgagagg aaattgactt 60
agacaaacac aagagcatcc aaagaaagaa aacagaggtg gaaatagaaa ccgtacatgt 120
cagtacagaa aagcttaaga atcgaaagga gaaaaaaagc cgagatgtag tctctaagaa 180
agaggaacgt aagcgtacaa aaaagaaaaa ggaacaaggc caagaaagga cagaggagga 240
aatgcttttg gaccagtcta ttcttgatt ttgaagcttt caaagtgtgt tctcccaaag 300
ttaaattgaa aaaatagggt agagcttggt tttatgatat ccgtgttcat accacttttc 360
ttatgtgaat aggttcttta acttctaaca aaggcctagt aaacaaagtg tttagcatgc 420
ttgctctcca acacagaaat tgcttttccct cattttctaa aagcattatt acattttttg 480
aacatatagt gtaatttccct ttaatgaaag tgactctgct tttattcatc aaattgcttt 540

```

379

```

gatggtggaa atatctctg ttgggaggtt atttatttta aattggagga ttaatgacct 600
ttgcacaatc tgcttcttga ttgggtttgt tatagttttg agttgggtat tttatgttca 660
ttgggttttc tctgtgaagc aatttttttc tcctttatta gatctaactt gcagtgtatt 720
ttctaggctg gaaagtggaa aatgaaatat attatratct taggttacat aaagtttcta 780
aagtttcaaa gagtcttgat acaaaatcag tttatattct gaaaatattt ataataaagt 840
attctaattt ctaaaaaaaaa aaaaaaaaaa aaaa 874

```

<210> 541

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<400> 541

```

tggcggtctt cttcacccgc aacccgagag acgaccncc gggcccgccc cgcggaagcc 60
gccggttgcc aggccaagga gtggactagg gtcgccgggg aagcggtttg ggagagccca 120
tgggtgactgc gtgagtggag ccagctgtg ttgatgcccc agcatggatg actacatggt 180
cctgagaatg attggggagg gctcsttcgg cagagctctt ttggttcarc atgaaagcag 240
taatcagatg tttgccatga aagaaataag gcttcccaag tctttctcta atacacagaa 300
ttctaggaag gaggtgttc ttttagccaa aatgaaacac cctaattatg ktgccttcaa 360
agaatcattt gaagctgmag gacacttgta tattgtgatg gaatactgtg atggasggga 420
tctaattgcaa aagattaaac agcagaaaag gaaagttatt tcctgaagac atgatactta 480
atggtttacc caaatgtgcc ttggagtwa aacacattya cawgaaacgt gtgctnccca 540
agagatttt 549

```

<210> 542

<211> 467

<212> DNA

<213> Homo sapiens

<400> 542

```

ggccagccct ggggcgcctt aaaaaccgga gctggcgctt ggcakcgcca ctctgggcag 60
gatccaacgt cgctccagct gctcttgacg actccacaga taccggaag ccattggcaag 120
caagggcttg caggacctga agcaacaggt ggaggggacc gccaggaag ccgccatgga 180
ccagctggcc aagaccaccc aggaaacat cgacaagact gctaaccagg cctctgacac 240
cttctctggg atygggaaaa aattcggcct cctgaaatga cagcaggag acttgggtcg 300
gcctcctgaa atgayagcag ggagacttgg gtgaccccc ttccaggcgc catctagcac 360
agcctggccc tgatctccgg gcagccacca cctcctcggt ctgccccctc attaaaattc 420
acgttcccaa aaaaaaaaaa aaaaaaaaaa aaaaaaagtc gtatcga 467

```

<210> 543

<211> 1211

380

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1190)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1193)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1194)

<223> n equals a,t,g, or c

<400> 543

```

gtgaaaaaag acactctgac agaagaggag actcagtttt atatagcaga aacagtatta 60
gccatagact ctattcacca acttggattc atccacagag acatcaaacc agacaacctt 120
cttttggaca gcaagggcca tgtgaaactt tctgactttg gtctttgcac aggactgaaa 180
aaagcacata ggacagaatt ttataggaat ctgaaccaca gcctccccag tgatttcact 240
ttccagaaca tgaattccaa aaggaaagca gaaacctgga aaagaaatag acgtcagcta 300
gccttctcca cagtaggcac tcctgactac attgctcctg aggtgttcat gcagaccggg 360
tacaacaagc tctgtgattg gtggtcgctt ggggtgatca tgtatgagat gctcatcggc 420
taccacacctt tctgttytga gacctctcaa gagacatata agaaggtgat gaactggaaa 480
gaaactttga cttttcctcc agaagttccc atctctgaga aagccaagga tctaattttg 540
aggttctgct gtgaatggga acatagaatt ggagctcctg gagttgagga aataaaaagt 600
aactcttttt ttgaaggcgt tgactgggaa catatcagag agagacctgc tgcaatatct 660
attgaaatca aaagcmttga tgataacctca aacttcgatg agtttccaga atctgatatt 720
cttaagccaa cagatgcctt cctgggggat actcctcccc accctaaagg gtcgcctgca 780
acttaggcgg attgggtctc tctgctgtgg cgttctctct tgagagaccc tctgaatttt 840
agcacaaaagt gccttctgtt tcacagctgc caccaccttt agaggaattt cgtcagaaaa 900
atgtggaggc tccatattaa tgcattattt tttaaaaagt tttgataact cttaaagcat 960
catttgcacc tatgtgggaa ctttgccctgt tgcaaagtat tgtggccgag ctgcagctgg 1020
gagcctgctt tctgccagtc ttgaggttct gaagatcagc tttgaaagga aagtatgtcc 1080
tagcttagcc attcagaaga gaaaaatggr atatcagagt tacagttgtc agtgaaacta 1140
ctttggattt taaccnctag aggangaaaa aggttaggrg gcactctgtn agnntggggt 1200
gcttagctta t 1211

```

381

<210> 544
<211> 1463
<212> DNA
<213> Homo sapiens

<400> 544
tttcgagctc tgcaccgagg agctgccctg gacttgagtc ccttgcatcg gagtcccat 60
ccctcccgcc aagccatatt ctggttgatg agcttcagt cctaccagac agcctttatc 120
tgccttgggc tcctggtgca gcagatcatc ttcttcctgg gaaccacggc cctggccttc 180
ctggtgctca tgcctgtgct ccatggcagg aacctcctgc tcttccttc cctggagtc 240
tcgtggccct tctggctgac tttggccctg gctgtgatcc tgcagaacat ggcagcccat 300
tgggtcttcc tggagactca tgatggacac ccacagctga ccaaccggcg agtgctctat 360
gcagccacct ttctttctct cccctcaat gtgctggtgg gtgccatggt ggccacctgg 420
cgagtgtccc tctctgccct ctacaacgcc atccaccttg gccagatgga cctcagcctg 480
ctgccaccga gagccgcact ctgcaccccg gctactacac gtaccgaaac ttcttgaaga 540
ttgaagtcag ccagtcgcat ccagccatga cagccttctg ctccctgctc ctgcaagcgc 600
agagcctcct acccaggacc atggcagccc cccaggacag cctcagacca ggggaggaag 660
acgaagggat gcagctgcta cagacaaagg actccatggc caaggagct agggccgggg 720
ccagccggcg cagggtctgc tggggtctgg cctacacgct gctgcacaac ccaacctgc 780
aggtcttccg caagacggcc ctggtgggtg ccaatggtgc ccagccctga gggcagggaa 840
ggtcaacca cctgcccatc tgtgctgagg catgttctct cctaccatcc tctcctctcc 900
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<210> 545
<211> 536
<212> DNA
<213> Homo sapiens

<400> 545
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gcttatgcaa tggcggaagc gtttatgtca acaggagttg gagcttctct taccctaatt 180
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ttatggctaa atcatatagt tggcggaat attttattga caacagcagc tattgcagga 360
ggagcatgtt ttggagataa tataggactt atttcagata ctacaatagt aagttctggt 420
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<210> 546
<211> 588
<212> DNA

382

<213> Homo sapiens

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<400> 546

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<210> 547

<211> 1585

<212> DNA

<213> Homo sapiens

<400> 547

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aatcttatgc acattccatt gtctttgcca agcccagaag ccatgttgtg ttcatgttta 180
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383

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taccctgttc tgraatgttg tattccattg gacagggctg ctatttttag tcagccatgc 1020
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gaaatgtgtt tttgtgtgcg tgtgtgtaga atgggtaaat aaaattgttg agtaacttga 1560
acctaaaaaa aaaaaaaaaa aaaaa 1585

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<210> 548

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 548

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gcaggagagc tattgaaatt gtagagtcag atgtcaaaag ccagactatt ctcaaaccac 480
tgtctgaatg taaatcacct tctgagcctc tgattcccaa gagggttggt cttattcaca 540
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aattacattc actacttcta ccacttgtgt atctctagcc aatgtgcttg caagtgtaca 1200
gatctgtgta gaggaatgtg tgtatattta cctcttcgtt tgctcaaaca tgagtgggta 1260
tttttttgtt tgtttttaa 1279

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<210> 549

<211> 1389

<212> DNA

<213> Homo sapiens

<400> 549

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aaggacctgg agcggaggcg ggaagaaagt cagaccagga tccgagatcc ccacgcagaa 180
tgacacagtg agctgccgct gggcccggag catgctgggc gtccccacct cgcagactgc 240

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384

acgctccaac cgccscetcc acctmetctt tccaggcccc gcagcttctg gagaaggaat 300
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tcagccgctc cccatcctgg cggaagatgt tccgggagaa ggacctccga ggcgtaactc 420
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aaaaaaaaa 1389

<210> 550

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (228)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<400> 550

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catctccgcc ctgagtctca tcaactctgc caccgtgttc aacctgccca gccccctcaa 180
cgccatgcag atcctatgga tcaacatcat catggatggg ccaccggngc agagggtgagg 240
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385

<210> 551
<211> 1089
<212> DNA
<213> Homo sapiens

<400> 551
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tgtttaagaa agattttatat aatgtttaca aatctggaat caaggatttt agctgaaatc 180
ctttaagaga tattagagca agtatttaat tcaggtattt tcaagtttta aaacttaacc 240
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gatatgccct tatttgcaat acttttccca taaagtttta agtgtgaaag aattgtaatt 360
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aagggaact atgtactgtg atgtaaaagt ctgggcaaaa tgtatataat cctgtatata 1020
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aaaaaaaaa 1089

<210> 552
<211> 1938
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1521)
<223> n equals a,t,g, or c

<400> 552
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tttctgtgaa ctgagagtcc ccaggtgata atttgggtgt tcacacacag gcagtttctt 420
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386

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tctgtctttg cagttctgca cggagctaaa ccagccgacc ctgccaaca tccgcaagt 660
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tgacgttcct ctgcgcatta cagaaagctt ttaactgtga tcaggcagtc tgctcagata 1860
cattgagtgg cgatttttag ttttgttttg aaaaaataaa cagattaacc tgcaaaaaaa 1920
aaaaaaaaaa aaattact
1938

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<210> 553

<211> 1442

<212> DNA

<213> Homo sapiens

<400> 553

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gcaaatcgcc ttgtaaaatg cgtctcattt tttaacttgc tttcgttttg aaccgccctt 1140

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387

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gtaatcgctt gaaatcgcta gttctttatg cgggtggcygc cctgtgttcc gttattttca 1200
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aa                                             1442

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<210> 554

<211> 1446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 554

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gtgatgaaga agaggaggaa gatgaggaga gctcctcgga gggcttgagg gctgaggact 180
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tttcccagtt tgatttcaat aaatctgtcc actcccctt tgtgggggtg aacgttttaa 1380

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388

cagccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1440
aaaaaa 1446

<210> 555
<211> 1278
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1252)
<223> n equals a,t,g, or c

<400> 555
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aatccagagt ccgctgacct ccggggccctg gcaaaacatt tgtatgactc atacataaag 180
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ggttttgtaa atcttgactt gaacgaccaa gtaactctcc tcaaatatgg agtccacgag 480
atcatttaca caatgctggc ctctttgatg aataaagatg gggttctcat atccgagggc 540
caaggcttca tgacaaggga gtttctaaag agcctgcgaa agccttttgg tgactttatg 600
gagcccaagt ttgagtttgc tgtgaagttc aatgcactgg aattagatga cagcgacttg 660
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cttccttccct ttctttctt 1278

389

<210> 556
 <211> 2001
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1979)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1991)
 <223> n equals a,t,g, or c

<400> 556
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 ctgcaattaa aacagtcggc ctgcaatccc gaaccaatgg atacctgatc catgctctta 480
 tgggctcgat aatctcaaac ctgccttctt ggatttattt gaaaatagtc atgaatatga 540
 acaagtctac acgggctcac tatctgaaga aaaccaagaa gaactaagca ttgataactg 600
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 agaaaaatata ttttagcccc taaaattagg aagaatgtaa tctcagaata aaggttgtca 1920
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390

<210> 557
<211> 2524
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (596)
<223> n equals a,t,g, or c

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cgtgcgccag attagtaggc aactccattt taagaagctg cctttttcac aaaactggaa 240
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gcagtgcntc cattttgggtg tactttcttg gaagaaagta taaaattgac cggcatcatg 360
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gggtggggtc aggccagctt ttaaacactg gggactggat cacagaaaaa cagtgggttt 480
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ataagatttg ggtggggagga ggaacattcc ttttgctatt ttgagctgag acaatntaaa 600
tattcaactg tgccatgcat aaagcattga attctcaggg cacctcttct tccccctacc 660
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391

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cgag 2524

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<210> 558

<211> 2667

<212> DNA

<213> Homo sapiens

<400> 558

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catcattaag gtttagtctg cccagatcac ctatttagtac ctaatttata tattctgaat 180
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392

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aaaaaaaaa aaaaaaaaaa aaaaaaa 2667

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<210> 559

<211> 2607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 559

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aacatttgta gcattgattt cccggatctg gtaacatggc aaaagatgcc ggtctaattg 180
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393

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aaaaaaaaaa aaaaaaaaaa aaaataa 2607

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<210> 560

<211> 1837

<212> DNA

<213> Homo sapiens

<400> 560

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394

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<210> 561

<211> 1682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 561

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ac 1682

<210> 562

<211> 1694

<212> DNA

<213> Homo sapiens

<400> 562

gggccaagat ggtgaaaccc cgtctctact aaaaatacaa agaattagct gggcgtgggtg 60

395

```

gcggggcgcct gtaatcccag ctactcggga agctgaggca agagaatcgc ttgaacccag 120
gagggtggagg ttgcagtgag ccaagatcgc gccactgcac tccagcctgg gcgacagagt 180
gagattccat ctccaaaaaa aaaaaaagaa aaaaaaaga aaagttctgt gttgatgtac 240
agttttctcct aagaagaagc gaggtggttg aattttggaa gcacttcttg aatcggatta 300
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aagtagccag aaatgttaga acaggtggaa atgtatacat tatttgatgg tttgtttttt 1620
tatggaaata aacaacatac atagaattaa atggtgatca aaaacatgga aaaaatactt 1680
cactaaaaaa aaaa                                     1694

```

<210> 563

<211> 949

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (914)

<223> n equals a,t,g, or c

<400> 563

```

tgcgcgccga gtctgtccct gcgcacccct gtggctttcc tgcaccactg cccccacca 60

```

396

```

ggatgatgga gagtaagatg attgctgcca tacactccag cagtgcagat gccaccagca 120
gttcaaatta tcattccttt gtcactgctt catccacctc tgtggacgat gcattgcctt 180
taccacttcc tgtcccacaa cctaagcatg cttctcagaa aacagtttac tcctcctttg 240
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```

<210> 564

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

<223> n equals a,t,g, or c

<400> 564

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aaacagggag aaganaggan agaaaaaggg ggattagtta tatcaaaaag cctggaaagg 60
tggaatgga ccaaaaagat gggactcctc ctttattcca gcatggaggg ttttaaattg 120
aggatttcct ttttctgcg acaaaacgtc ttttcacaac ttaccctgtt aagtcaaaat 180
ttattttcca ggaatttaat atgtacttta gttggaatta ttctatgtca atgattttta 240

```

397

```

agctatgaaa aataataata taaaacctta tgggcttata ttgaaattta ttatttcta 300
ccaaaagtta cccacacaaa aagttactga gcttccttat gtttcacaca ttgtatktga 360
acacaaaaca ttaacaactc cactcatagt atcaacattg ttttgcaaat actcagaata 420
ttttggcttc attttgagca gaatttttgt ttttaatttt gccaatgaaa tcttcaataa 480
ttaaattatg taaaaagtcn nan 503

```

<210> 565

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 565

```

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accactgttg cagaagctcc tcacagagta tgtgtcaggc atttttaacc tgctaaaggc 120
aagaagaagt gttcaccaca tagttgcaaa ggtcttcaac ttgccacagc caacagaaaa 180
atcaaaatga ttgaaccctt tgggaatcag tatattgtgg ccaggccagt gtattctaca 240
aatgcttttg aggaaaatca taaaaagaca ggaagacatc ataagacatt tctggatcat 300
ctcaaagtgt gttgtaactg ttccccacaa aaggcaagag aattgtcctc tctttgnttc 360
ccatagcatt ttgg 374

```

<210> 566

<211> 1652

<212> DNA

<213> Homo sapiens

<400> 566

```

agcttatacc agctgaatgg cagccttgcc taatccacct acaacaagaa tttcttaagc 60
tttcttttat ttgcatgaga gagccactac caaggcatgt tttgttatgc tgaaactggg 120
ctgctgcata ctgctaaatg gcacctctgg gattggccta cctggggatt tcttggtttg 180
tgaaaacagg agaggagaaa tatctcatat aagtgaagg atactggaga gagaaattac 240
ccattttctaa aaaaaaacca cactctgtcg tatctgtgtt aatgttttct agcatgtact 300
ctggtttcaa cagacacaaa tttatatgtt aaccagttt tcttgccgtt ctgtaagtgt 360
tttattctta gtgtgatttt ttccatttgg gatgtttttg attgaacttg ttcattttgt 420
tttgcttggg aggaaaataa acaattttac tttttcctt taggagcatt atgagcatta 480
tgtcagaata gaatagaatt ggggttcgat cttaacaggc cagaaatgcc tgggttttwt 540
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taccatcgtg acatctccat ggctgtacca cctgttcggg tagcttatca gactgatgtt 660
gactgtyraa tctcatggca acaccagtcg atgggctgtc tgacattttg gtatctttca 720
tctgaccatc catatccaat gttctcatat aaacattacc cagcatcatt gtttataatc 780
agaaactctg gtccttctgt ctggtggcac ttagagtcct ttgtgccata atgcagcagt 840
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tgctctatct tagatagatt aacattaacc aacataatct tttttagatc gagtcagcat 1080
aaattttctaa gtcagcctct agtcgtgggt catctcttcc acctgcattt tatttggtgt 1140
ttgtctgaag aaaggaaaga ggaaagcaaa tacgaattgt actatttgta ccaaatcttt 1200

```

398

```

gggattcatt ggcaaataat ttcagtgtgg tgtattatta aatagaaaaa aaaaattttg 1260
tttcctaggt tgaaggtcta attgatacgt ttgacttatg atgaccattt atgcactttc 1320
aaatgaattt gctttcaaaa taaatgaaga gcagctgtcc ttctttcttc ttttaagtgt 1380
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tctcaaagat acacagtacc tacttaattc cagctgatgg gagaccaaag aatttgcaag 1560
tggatggttt ggtatcactg taaataaaaa gagggcctgg gaattcttgc gattccatct 1620
ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1652

```

<210> 567

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1286)

<223> n equals a,t,g, or c

<400> 567

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tgaacctcta atagaactgt ctaaccctgg agccagtggg tccttggttt ttgtgaccag 60
tgatgatgaa tttatcatca aaacagttca gcacaaagaa gctgagtttc ttcagaagct 120
actgccaggc tattacatga atttaaacca gaatccaagg actcttttgc caaaatttta 180
cggactgtat tgtatgcaat caggaggcat taatatcagg attgtggtga tgaacaacgt 240
tttgccacgc tccatgagaa tgcactttac atatgacttg aaaggctcaa cgtataagcg 300
aagagcatcc cgtaaagaga gagagaaatc caacccaca tttaaggact tagatttcct 360
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acttcagaga gactgccggg tgctagaaag cttcaagatc atggattata gccttctggt 480
gggaattcat ttcttggacc attccctcaa agagaaagag gaggagaccc cacaaaatgt 540
gcctgatgct aagcgggact ggatgcagaa ggttctctac tcaacagcca tggaatctat 600
ccagggtcca gggaaatctg gagatgggat aatcacagag aaccagaca caatgggagg 660
cattccagct aaaagccata ggggagaaaa actactttta tttatgggca ttattgacat 720
tctgcaatca tataggttaa tgaagaagtt agaacattcc tggaaagctc ttgtttatga 780
tggggacact gtttctgttc atagaccaag cttttatgca gacagatttc ttaagttcat 840
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caattcaatc gccgccctaa aggccacttc acaggagatt gtgtcctcaa ttagccagga 960
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acacgacagg cctacactct atttcaaaca gcaaagggtt accttccagk tncaacattt 1200
taccttggga aggggggacc ttttacttgg accgttgggg cccaacattt tnggaagttg 1260

```

399

cagggtgaca ttgtttttgt ggtttngacg t

1291

<210> 568

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 568

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gggaaagntg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc cacgcgtccg 60
gcttttttatt ctgtggaagt aaaatcctga acgtttacaa cttttcctta acttgtaa 120
aaaaaattgt aagttttttc tttttttaca gaaaacttag ctgtgtgaat tctgttagtt 180
tcagatttct ctctgtttt tgcaaattgt gggaaagatt gacaatgcaa atgtgtcaaa 240
gacatactgt tgggtgcaat attaacaatt ttaaattgcaa atttctttgg ataaattatt 300
tctatattct gtaaatctga gatttaattgt atattttgtt taaaaaaatg atttagtaaa 360
atctttgaaa agtatgatct tctaaagnat ttnaaaanaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aa

```

442

<210> 569

<211> 2084

<212> DNA

<213> Homo sapiens

<400> 569

```

tgctctgtcc cccttaacaa accagggggc atggaggggc ccagggcacc gccccctac 60
caggctcagg ccctccaagg agaacctgct gagacccttg agcctgtcct agaccccgga 120
cccctgaccc ttcccacccc ttccagcgtc ccagggcgag gccttggaca gagctcctgg 180

```

400

```

tcctctgcag ggagaccatc cagcccaagc tctgggaggc acagtccatt gagtgggcg 240
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tcccacaggg tccaaccac ctgaaacctg cctgcacggg ggaagtgggtg gaggtggaca 360
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cacgtttcag atcaagtgtt gacagtcacc agtcaggagg agttctttaa gagttttatg 480
ttgactgaat attgcacatt gagtcccat tgagtccctg gtgggaaaag tccacaattt 540
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gaccgctgct tcggagaagy tctcgaccct aactgcagtc actgttactt ggatcagatc 660
aagcgcagtg actttttggg attcagtggt tattctccac acttcgtagc catttcaacc 720
aactctgagc acaaaatgca gccatcctct atgcagcaag cctgcccag tcagtgaacc 780
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attctattaa aaacatttca aggcattttg ggtgcaaaat ttgtttataa aagagaaata 1920
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tagtactgac acatgcgtgt gtgtgcgcgt tgtgtgcgtg tgtgcgtgca cgtgctgttg 2040
ctgcccttcc tagctggtgt gaggaagccc ggacgcgtgg gtcg 2084

```

<210> 570

<211> 982

<212> DNA

<213> Homo sapiens

<400> 570

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ggcacgagct tacagacgct gccagcatcg ccgcccgcag aggagaaatg tctgaagtaa 60
gacccctctc cagagacatc ttgatggaga cctcctctga tgagcagctc ctggaacccc 120
cgaccatgga ggttcttggc atgactgact ctgaagagga cctggaccct atggaggact 180
tcgattcttt ggaatgcatg gagggcagtg acgcattggc cctgcggtcg gcctgcatcg 240
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tgacagacct ggggtctggc ttcatctacg accagactga ggacatcagg gatgttctta 360
gaagtttcat ggacggttcc accacactta aggagaacat aatgaggttc tggagatccc 420
cgaaccccg gtcctgggtg tctgcgaac aggtgctgct ggcgctgctg ctgctgctgg 480
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gctcaggggc gggctggccc ccccccatg accactgccc tggaggtggc ggctgctgc 600
tgttatcttt ttaactgttt tctcatgatg cttttttata tttaaaccac gagatagtgc 660
tggaacactg ctgaggtttt atactcaggt tttttgtttt ttttttatcc cagtttctgt 720

```


401

```

tttttctaaa agatgaattc ctatggctct gcaattgtca ccggttaact gtggcctgtg 780
cccaggaaga gccattcact cctgcccctg cccacacggc aggtagcagg gggagtgtg 840
gtcacacccc tgtgtgatat gtgatgccct cggcaaagaa tctactggaa tagattccga 900
ggagcaggag tgctcaataa aatgttggtt tccagcaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aa                                     982

```

<210> 571

<211> 872

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (870)

<223> n equals a,t,g, or c

<400> 571

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ctcagcctgg ggaccccaac tccaggccct ccagcccaaa acctgcccag ccagccctga 120
aaatgcaagt cttgtacgag tttgaagcta ggaaccacg ggaactgact gtgggtccagg 180
gagagaagct ggagggttctg gaccacagca agcgggtggtg gctggtgaag aatgaggcgg 240
gacggagcgg ctacattcca agcaacatcc tggagccctt acagccgggg acccctggga 300
cccaggggcca gtcaccctct cgggttccaa tgcttcgact tagctcgagg cctgaagagg 360
tcacagactg gctgcaggca gagaacttct ccaactgccac ggtgaggaca cttgggtccc 420
tgacggggag ccagctactt cgcataagac ctggggagct acagatgcta tgtccacagg 480
aggcccccacg aatcctgtcc cggctggagg ctgtcagaag gatgctgggg ataagccctt 540
aggcaccagc ttagacacct ccaagaacca ggccccgctg atgcaagatg gcagatctga 600
taccatttag agccccgaga attcctcttc tggatcccag tttgcagcaa accccacacc 660
ccagctcaca cagcaaaaac aatggacagg cccagaggst gaagcaaaca gtgtcccttc 720
tggtgtgtgt ggagcctccc cagtaaccac ctatttatct tacctcttcc ccaaacctgg 780
agcatttatg cctaggcttg tcaagaatct gttcagtccc tctccttctc aataaaagca 840
tcttcaagct tgtaaaaaaa aaaaanantan aa                                     872

```

<210> 572

<211> 733

<212> DNA

<213> Homo sapiens

<400> 572

```

gcctgcgcgg actcccgctt tagtgggcgg agttgtgccg cgtctgatgc gcagttccct 60
ttatagcgcg gcaagccgaa tcctagaggc taaccgggca ggtgggaggg agaaagttgc 120

```

402

```
ttttctgcacc aatagctgag gcgttcaggg ttgtccaggg acgctaccct cacgtgtctg 180
gttccgagtg ctgcgttcgg ctgtgctggg aagttgcgta gacagtggcc tcgagaccct 240
gcctgcctga ggaggcctcg gttggatgcg aaggagctgc agcatccagg ggacaagatg 300
ccaactggca agcagctagc tgacattggc tataagacct tctctacctc catgatgctt 360
ctcactgtgt atgggggggta cctctgcagt gtccgagtct accactattt ccagtggcgc 420
agggcccagc gccaggccgc agaagaacag aagacctcag gaatcatgta gaactggggg 480
gctttttctc ctgagcagag agggccaagg catgctgtgg agagacttca cctgccacca 540
tttccaggtc aacaggacta gagcgttgat ggttttcaaa ccctgttgga agaaagtgcc 600
catggtttct ctggttctgc cagtttgaca gtttatggag gcttttgaat cgtaatagca 660
atgtgagggt gaggtacacc tacagacatt aaataatttg ctgtgtcaaa aaaaaaaaaa 720
aaaaaaaaagtc agc 733
```

<210> 573

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 573

```
gctgactaca gggccgcccg caataaaagc ccaggagccc atttggaggg cctgggcctg 60
gctccctcac tctcaggaaa tgctgacctc tgggcaggag actgtggaga ctgctcctga 120
gccccagct tccagcagga gggacagtct caccatttcc ccagggcacg tggttgagtg 180
gggggaacgc ccacttccct gggttagact gccagctctt cctagctgga gaggagccct 240
gcctctccgc ccctgagccc actgtgcgtg gcgntccccg cctccaaccc ctgcccagtg 300
cccagcagcc agccaaacac acagaagggg actgccacct ccccttgcca gctgctgagc 360
cgcagagaag tgacggttcc tacacaggac aggggttcc tctgggcatt acrtcgcata 420
gaaatcaata atttgtgggtg atttggatct gtgttttaat gagtttcacr gtgtgatttt 480
gattattaat tgtgcaagct tttcctaata aacgtggaga atcacaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaagtcg tatcgatgt 569
```

<210> 574

<211> 1718

<212> DNA

<213> Homo sapiens

<400> 574

```
agtaccatcc tcgaggactg tccacgaggg cctgaggaat caggagctga actccacaga 60
gtcagttatg attaattgaa aatattgctg tccaaagata tacttcaacc accgttgctt 120
ctcagggcca tatcttaaca aaggaagaat tgctgagctg cctcaatgtg taggacctgg 180
gaactgtgtt ctggtcctta gagagcctac aaacccagcc gtgtccttcg ggagctccag 240
ctggacaaag actctgtgtg gcacggatgt ggggaagtcc taaaagccaa atataaagga 300
aagagttatc gggctactgt tgagatagtg aaaacagcag atcgggtgac tgaattctgc 360
cggcaaacct gtatcaaact ggaatgctgt cctaacctct tcgggtccacg gatggttctg 420
gataagtgtt ctgagaactg ttctgtactt acaaagacca aatacacaca ctattacgga 480
aagaagaaaa ataaaagaat tgggaggcca cctgggtgggc atagtaactt agcttgtgcc 540
ctgaaaaaag ccagtaagag gagaaagagg cggaaaaatg tttttgttca taagaagaaa 600
cgctcctctg catctgttga taatacccca gcgggctctc cccagggaag tgggggtgaa 660
```

403

```

gatgaggatg acccagatga aggggatgat gattccctaa gtgaaggcag tacatccgag 720
cagcaggatg agctacagga agaatcagaa atgtcagaaa aaaagtcag ctcctcttct 780
cccacccaaa gtgagatatc cacatcgctg cctccagata gacaaaggag aaaaagggag 840
cttcgcacct ttctattttc tgacgatgaa aataaacctc cttcaccaa ggaaataagg 900
atcgaagttg ctgaaaggct tcacctggac agtaaccctc tgaagtggag tgtggcagac 960
gttgtgcggt tcatcagatc cactgactgt gctccattag caagaatatt cctagaccag 1020
gaaattgatg ggcaggccct gttgctcctt acccttccca ctgttcaaga atgcatggac 1080
ttaaaattgg gccctgccat caaactttgc catcacatag agaggatcaa gtttgctttt 1140
tatgagcagt ttgccaaactg agaaggacaa ccaaagttag ctggatcttt gaagcacaaa 1200
tgcagcaaat ccttcaccct gctttataag tggagctgga atagtcctgg ggctctgggg 1260
cctgcaggta tcagcttgct ctctttgcac ttctggggaa ggaggactca cagtggaggaa 1320
gcaaaaaactg tgcacagaag tggatcacct gctggtggaa atgtggacat ctcttgttca 1380
gcagatggca gtttttaaaa aataaagggt gtgaggaaaa gacttatata agaagaaaag 1440
catttccagt ggtgtggcct gaaaacaaag aataacctag gctgctggaa agcacccttt 1500
tggttggttt cattctgttc cctcccattg tagattgaac ttgttctct gctttctttt 1560
tcttggaag agaggactta gctttaagtc agcactgatt tgggactgtt cctaaggcat 1620
atcagtgtt cattgtcatt gtgtttttaa actttttaa attaaaacag ttcatttttg 1680
ggatgaaaaa aaaaaaaaaa aaaawraag tcgacgcg 1718

```

<210> 575

<211> 1544

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1538)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1539)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1544)

<223> n equals a,t,g, or c

<400> 575

```

agtgggatcc aaagaattcg gcacgagggg attaggtaaa agtcttgcag tgaaaaaccc 60
gaggaccctt accgcaagtg tcttttgctc ccagctactg atactggatt ccactcgtga 120
ttctcccttt cttagcgcat tcatgatata gacatcagtc tctgagctgg aggaggacaa 180
aggcagcggg cctgtgaatt ctatgctcta gcttgggtta agggatttgg aattgcactt 240
gtttcagaga gctccctctt tgcccactag cagggcatta gctggtgctg aagacagtgg 300
ctgcttggcg agcctggatc tccaagtga cccctcagca actcctgatg aacaggactg 360
aagccaatat taaagcaagt caaccaaagg ttctctggtg tagacaagac agcaaaagga 420
cagactacct tgtggaacct agcattgttc tccttctgca gcactaagta ctgtgtgcag 480
aatgtgatt gagattcaag tcagggcctc tctgcccttt tccctccaga aacaaaacca 540
agataattta tcctgaacac ggtgaaaaa ggaagggagg gaggagaaaa agtccgggtc 600
tcacctggga ttctctgtct cctgcaacat gaaggattta gcctgggagg aggtggtgag 660

```

404

```

aactctggga gagaaaaaag aaggaaagaa tagttttacc catgctgaag ttaatttaaa 720
ccttcaccta gagaagcaaa aaaaaaaaaac ccacactttc ccattttgtg cctcccttcc 780
tagagtttta gccaaagggt tagctaagta attggtttta ccagcgact cactcctcct 840
atcccaagtc tgtttgactc cctccccatc atcctcctca cctcttttca ggcaggggtg 900
ggatagcagc aggaggagat tttgggagcc tggcaactcc tgcaaggacc gcaggacagc 960
ccctctgtgg ggatgcgtgg tgccccatct gccgcccttc tgaagaatgc actgccttca 1020
ctttttactg tgtttagagtc catccagact gttctatcca aaaaagtttc tttttcccc 1080
acaggcaatc aggaaatgat tcctttcccg actgcttctg tctagtgcct gggaatcttg 1140
agtcaatccc tcagtaagtc agtgactagg gaaatccctc tctgagcctc ccagttcatg 1200
ttgcttaggg aacctgatat tttcgtgaaa cctgcctaca catgggcagc ccaacagcag 1260
aacaaatggg ggtgaccaa gtgaacaaag aagtatagtt gtgccagctt cgtagttgcc 1320
catgtggaca agtcagcagg atcaggacac gaggaagagt aaatgtgaga cagtcaatgt 1380
gacttctgcg ataaacagat ttttaaacc cgaattttg caaaattttg gtgaaacctg 1440
aactttcttc gttgcatata ctggcactat ctgtaccatc atacaactgt ctcacattaa 1500
agctattttt cttgggcaaa aaaaaaaaaa aaaaatgna aan 1544

```

<210> 576

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 576

```

catcagttct atttaatact tatggcaatt aagagattta gaaagcagag gaaaagacca 60
aaaaaaaaagt atgngttaca aagtgtcatc atgcttgtag gaccccagca ttcttgaaac 120
taacgcacct ttaaaaagta atatttacac tgctgtaaat atttgcaaag tatcaatgtt 180
taattcactt agaattttta ggattatgga tttactagcg aaaattcccc taaagcaact 240
ttcccatatc agtaactttt atttagggaa acaagtttaa tgtacataat acatgtgacc 300
ttggaattca atagaatttt cgaaactaga agtaactcag aacrttcact agatggtttt 360
aaagtcyttt ttgatactgt ccytaacatt tgcytatattg cmaattaata tgtaagaatg 420
rgtcyaaaag taagtttttag gaatggttat tcgacaaaga tgttattcct attaccaata 480
ctgcgaaatg ataattacag aaacaatgtg ggatccgttt tataacttca aatttaagtt 540
cctttgtact ttggagcaga aaatgtaaga aatcgaaatc aagagttagt attttttatc 600
tttcaggctg gctttaactg ttcatacacc tagcaaaata aacatttgtg aaaggcgta 660

```

<210> 577

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

405

<222> (332)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (532)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (550)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (565)
 <223> n equals a,t,g, or c

<400> 577
 aaattttactc cccagtacaa aggtgtctnt tgatcacagt aacccatagt cccccactgg 60
 ggggacggtg ggggaagact ttgggaggat tttaccaga atacttgccg cctgtttttt 120
 gtcctccagg aaaccagaag cccgggtaat taggacaaag ccaaaggccc cttgttagct 180
 ggccatccct gccccatttt tccccctggt cctttccct gtggccacag ggaagtgtgg 240
 cctgaatacc ccaccccggc tcctctgcac ccagagctgg ggccacctc agaagtgtca 300
 tctctctctg agcacgcatt cccctgcagc antcgaggaa tgagcagatt gagtgatgct 360
 ggggcagaga ggccctgggag gaaaggtgtt cagccagtcg tttgtaaggc gctcgtcggc 420
 acctgctgaa acgcccccac ctgacagccc cactctcaa gactgtctta attactcatg 480
 gcaaggttct agagacttaa ggggaaaagc tgctttaagg ccaccacatg tntgtgctcc 540
 ccaaccagtn tatctggctt ggggntcatt ttgg 574

<210> 578
 <211> 939
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (85)
 <223> n equals a,t,g, or c

<400> 578
 aattcggcac gagccaaagt gcagggatta caggtgtgag tgagccaccg cggccggcct 60
 ctatcatttt ctgactcagc agctncacca aaattgacat cctagcaaac actgtgaagg 120
 aattaacctt agtgcttcca gagcatctca tgtaacctct atggagtaag tcaactttttc 180
 tgtaacatgt ggctttttgac cttgatgaag actttgactt ctcacccctg tctacatgga 240
 ggaagatgat tcagtgggtg ggaaaatgaa cctcggtaac atttccaatg tccttcaaga 300
 gggaaacaag ttcagtgtta tcatcgtggc attcgttagt tttttttttt taaatcactt 360
 gttagatata aactttatatt ttttatacct acatagcaca tgactggggg gataaagcat 420
 gtataagttg ggagagggta aagaatgtgt gactatgtat acagaaaata gactaaaatg 480
 tgcagcaaaa tgatatatac tgtaatctgg tttttgaagt atctactatt ctggaatatt 540
 gttaaacaac tttttgcttt tgaaaaaaa aggtgccttg attcagttgc gtgacttaga 600

406

```

acattcatcc tattttattg tgatttttaa tgtcttctga ccccaaactg tgtttttggt 660
tgcagtctgg cggctgcagg catagcgctg gttttgttcc aataacagag accaaagagt 720
taatcagata tggttcagct gctacaattg tatgattcaa aggcaattta atcaccccaa 780
atttccatgg cccccacagt caagacctgc cattcgtttt ctcttgcagg ttggagtaaa 840
tttgcacttt gaatcatgtg ggtcatttgg ggacctgtt cttttctatt ttgctttatt 900
aataaaggaa cttgtagaaa aaaaaaaaaa aaaaacact 939

```

<210> 579

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (778)

<223> n equals a,t,g, or c

<400> 579

```

caccagagccc ggagatacca tccaccagaa cctgngccat ggcctattag tcctaaagnc 60
agttgtcaaa gcagggctgt acgtcgggat tcgggaaatt caccagcgct cgcaacctca 120
gtccctcaag gccatacctg gacccaacgg tgaagaaaga cgatgaggag gaggaccgcg 180
tggaccagct gatctccgc tctggctgtg ctgcctccca ctttgcagtg caggagtgc 240
tggcccagca ccaggactgg cggcaatgcc agccacaggt gcaggcggtc aaggattgca 300
tgactgaaca gcaggcgagg cggcaagagg agctgcagag gaggcaagaa caagccggtg 360
cccaccactg agaccccaaa ccacctatcc ccagtagatg gccctgccaa gaccagcacc 420
cagcaagatt atagaggaag aaatcctaaa tgctgggtgtg ggaggtctaa aacatgggga 480
gagtttttgg atctggagtt gagagccatg ggtttggaca tgactggcac aaacagctgt 540
catatgttca tggtcagatg tcatacatc tcagctgtct tgttccacca gtatttacca 600
ggaaaacaaa gaatgtgtta agggatgctc cccacccca catcttaagt cagtgtgcc 660
agtactgaga tgatttttag gacattttat tttaaattaa atttacaatc taatggtaaa 720
ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggggg 778

```

<210> 580

<211> 626

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

407

<220>
 <221> misc feature
 <222> (434)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (470)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (537)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (617)
 <223> n equals a,t,g, or c

<400> 580
 gcgccttcaca gcttcctcct cgtctgggat ggtgccc aaa ttgccagctg gcaaaatgaa 60
 taaccgtgat ctcaaaccct agcctgatat agtcttgctt ccgttgccca ctgcctatga 120
 gctagacagc accaaactga agagcccact aattacttcc cccatgttcc gtaatgtgcc 180
 cacagcaaac ccacaggagc cgggaatcag acgggtyccg ggggcctcar aggtgatccg 240
 ggagtcgagc agcacaacag ggatggctgt cggmattgtg gctgctgccg ccctctgcat 300
 cttgatcctc ctgtacgcca tgtacaagta caggaacagg gacgaggggt cctatcaagt 360
 ggacgagacg cggaactaca tcagcaactc cgcccagagc aacggcacgc tcatgaaggg 420
 agaaagcagc anantcgaa gagccggcca caagaaacca gaaaaaacn tgggacaggg 480
 gaagtattta acgtggtaaa accattggcg aaaccaactt gggttcaaca accgccnaag 540
 ttttttttca ccaagggtta attttctctt aattcccaac gggcccttta tttgaaaaat 600
 ctttttttgg ggaaccnggt tggaaa 626

<210> 581
 <211> 645
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (595)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (604)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

408

<222> (608)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 581

```

gcttggatta tatctaaatg gattatttgt taaaagtact gaaatgagta taaggcagta 60
tcacccatcc aaaagaaagg tctttataga cctgcacagt cactagatta attcattaaa 120
atgccccac cctgatgtaa ttgacattac atttcttaac attttaaaat ctagaatttc 180
taaaatggaa tttaatgccca tcacaatttg aaaaactttt tttttttttt tactatagaa 240
gttacaaagg aagttctaaa attatgcctc cctctgtttt tataagttgc catcgaaaag 300
tgatttaaata aagcagggtta tctttataga ttttaaagaa aactagaaag ttytaatgtt 360
ttaacttggg gaaaaatata tctctttaat gtttagcatg cttgtcaacc ttgagtgagt 420
gtcattttta agaacagttg tagcccttct gattattgca gtagctgtag aagtatgtaa 480
gaatatgtga tgggtgtagt cattagcaaa gcatttaaata cacttgagta ttttgtcatg 540
gktcattatt attaaagcac aaaataacct attgttagaa aatatgtgtt ttatnaatga 600
atgnaaanta attaaaaaaa naaaaaaagg ggcggccggt ctaga 645

```

<210> 582

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<400> 582

```

gggaggggat ggggcacact tccccaaagg cggacccagc aggaggaagc ccaggagctg 60
ggctctgccg ccaggagct gggccctgcc acccaggccg ggctagggac atggcagggc 120
ctgggcatcc tggcgctgga cttgggcgac ctgggaggca cagggagggg agagatgggc 180
ggccccgccc cagcgagtg ccggccacac ccatgcaccg aagctcctcc ctgccacacc 240
ccaaggcggt tgccggagct taagccccgc ccccgagcgc gagaacatcc cccccccac 300
ccccctgcag ccagtgtctc ttgtcaagct cccccgtna ctccagtggg anccaccccg 360
gngagggggg

```

<210> 583

409

<211> 1269

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<400> 583

```

gcggaacgcgt gggcgggcggc gtycagggtc ggcagcaacc gcagscgagc ccgagcgggt 60
ggcgggcgcca tggcgtgcgc ggggctgctc accgtgtgcc tgctccggcc gcccgcgccc 120
cagccccagc cccagacccc gcggcacccc cagctcgcgc ccgaccggg gcccgcggga 180
cacacgctct tccaggacgt tttccgcaga gcagacaaga atgatgatgg gaagctctca 240
tttgaggaat tccagaatta ctttgccgat ggggttctca gcctggggga gctgcaggaa 300
ctgttcagcg gcattgatgg gcattctacc gacaatttag aaacagaaaa actgtgtgac 360
tacttctcag agcacctggg tgtctaccgg ccggtgctgg ctgcattgga atcgctgaac 420
cgtgcagtgc tcgctgccat ggatgccacc aagctggagt acgagagggc ctccaaagtg 480
gaccagtttg tgacrcgctt cctgctgcgg gagacgggtga gccagctgca agcccttcag 540
agctcgctgg agggggcgctc agataccctg gaggcccagg cccatggctg gcggtcagat 600
gcagagagcg tggaggcgca gacgaggctc tgcggcagcc ggcgggcagg acgccgagcc 660
ctgaggagtg tcagccgggtc atccacctgg tccccggct cttctgacac agggcgcant 720
cagaggccga gatgcagtgg cggctccagg tgaaccgcct ccaggagctc atcgaccagc 780
tcgagtgcaa ggccccccgg ctggaacccc tgcgtgaaga ggacctggcc aaggggcctg 840
acttgacat cctcatggcc cagaggcagg tccaggtggc agaggaaggc ctgcaggact 900
tccaccgagc cctgcgctgc tatgtggact tcacaggggc ccagagccat tgtctgcatg 960
tgtccgcccga gaagatgctg gacggtgcct ccttcaccct gtatgagttc tggcaggatg 1020
aggcctcctg gagaaggcac cagcagtcgc ctggcagcaa ggccttcag cgcctcctca 1080
tcgaccactg cgggccccgg acaccctcac cactgtgttc tcccagcct cctggtggat 1140
aatgaataac aactgagcca gacctgcaca cgccgagggc cccgggaccc tgctgcctc 1200
tgaaccccag gtgggacccc agcacagagg caataaaggc agtggtccct tccaaaaaaa 1260
aaaaaaaaa 1269

```

<210> 584

<211> 1943

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1177)

<223> n equals a,t,g, or c

<400> 584

```

gctgatccag aacgtcaccc agaatgacac aggattctac accctacacg tcataaagtc 60
agatcttgtg aatgaagaag caactggcca gttccgggta taccgggagc tgcccaagcc 120
ctccatctcc agcaacaact ccaaaccgt ggaggacaag gatgctgtgg ccttcacctg 180
tgaacctgag actcaggacg caacctacct gtggtgggta aacaatcaga gcctcccggg 240
cagtcccagg ctgcagctgt ccaatggcaa caggaccctc actctattca atgtcacaag 300
aaatgacaca gcaagctaca aatgtgaaac ccagaaccca gtgagtgcc aagcgagtg 360
ttcagtcata ctgaatgtcc tctatggccc ggatgcccc accatttccc ctctaaacac 420

```

410

```

atcttacaga tcaggggaaa atctgaacct ctcctgccac gcagcctcta acccacctgc 480
acagtactct tggtttgtca atgggacttt ccagcaatcc acccaagagc tctttatccc 540
caacatcact gtgaataata gtggatccta tacgtgccaa gcccataact cagacactgg 600
cctcaatagg accacagtca cgacgatcac agtctatgca gagccacca aacccttcat 660
caccagcaac aactccaacc ccgtggagga tgaggatgct gtagccttaa cctgtgaacc 720
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caggctgcag ctgtccaatg acaacaggac ctcactcta ctcagtgtca caaggaatga 840
tgtaggacct tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgaccagt 900
cctcctgaat gtctctatg gccacagcga cccaccatt tccccctcat acacctatta 960
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caggactaca gtcaagacaa tcacagtctc tgcgganstg cccaagccct ccatctccag 1200
caacaactcc aaaccctgtg aggacaagga tgctgtggcc ttcacctgtg aacctgaggc 1260
tcagaacaca acctacctgt ggtgggtaaa tggtcagagc ctcccagtca gtcccaggct 1320
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catagtcaag agcatcacag tctctgcatc trgaacttct cctggtctct cagctggggc 1740
cactgtcggc atcatgattg gagtgtggtg tggggttgct ctgatatagc agccctgggtg 1800
tagtttcttc atttcaggaa gactgacagt tgttttgctt cttccttaaa gcatttgcaa 1860
cagctacagt ctaaaattgc ttctttacca aggatattta cagaaaagac tctgaccaga 1920
gatcgagacc atcctagcca aca 1943

```

<210> 585

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

411

<400> 585

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caccggtccg gaattcccgg gtcgacccac gcgtccgggc tctgaaggag gttttcaagg 60
agtatttgat tgaactgngn nngttgcaac actttcaagg gaacatgatg gattttcttag 120
ctttcaagga gagactgtat ggaccattac aagcataatct taggcagaat gatttggaca 180
ttgaagaaga ggaagaggag cactttgaag tcattaatga tgaggtaaag gttgtggcca 240
gaaagcacgg gcagcctggg actcctgttg ccatagcaac ccasstaccg ccgaggactt 300
ctgcggtctt tccagcccag cagcagccgc tccaggtagt ttctgatggc tccacagtgc 360
agctccccag actttcctca ctccggattt aggactcgat gtgctgagge akgacccaga 420
gggggtcccaa gagcctgtcc tcttttgttc aaaatacatc ttgaaacgtc tttgtgaagg 480
ctcttagttt taatgcatgg atgctgttat ttttccttac tgttactgaa attaaaaagt 540
gtttgtctct gaaaaaaaaa aaaaaaaaaa aaaaaaa 577

```

<210> 586

<211> 1240

<212> DNA

<213> Homo sapiens

<400> 586

```

gctcgtgccg cggccccgcc cgcgtcagct ctgcgcggtg attcactccc tccttcgccc 60
cggggccccc ttccccggcca gacggcgggc aagacagctg ggtgtacagc gtcctcgaaa 120
ccacgagcaa gtgagcagat cctccgaggc accagggact ccagcccatt ccattggcga 180
ttctgagcgc ctctcggctc ctggctgctg ggccgcctgc accaacttct cgcgcactcg 240
aaagggaaat ctccctgtttg ctgagattat attatgcctg gtgatcctga tctgtttcag 300
tgcctccaca ccaggctact cctccctgtc ggtgattgag atgatccttg ctgctatttt 360
ctttgtttgt tacatgtgtg acctgcacac caagatacca ttcatacaact ggccctggag 420
tgattttctt cgaaccctca tagcggcaat cctctacctg atcacctcca ttgtttgtct 480
tgtttgagaga ggaaaccact ccaaaatcgt cgcaggggta ctgggcctaa tcgctacgtg 540
cctcttttggc tatgatgcct atgtcacctt ccccgttcgg cagccaagac atacagcagc 600
ccccactgac cccgcagatg gcccggtgta ggcgaacttc cctcatttct ctctgcaatc 660
tgcaataaac tcctccattg aaataactcc tccccacccc aacaacaaca ttcccagcag 720
accaactccc accccctctt tgaggtaaaa gtgcctttat tgggagactt ttgtcttcca 780
gcctgccaat caaccctcct ggggtgtggc accatatgtg tgtgcctagg tcctccttct 840
gcacgatcca ataggagaca ccagttctga ctgaaccatg cccccaccta agtcacaaaa 900
tgagggaagt ggggagttag atttcagagt ccaggcccta ggttgggacc cactccaaat 960
aatctcctcg gtgtgggtgg tggttctata gagggataaa tgaataataa acattgttaa 1020
aatatacgat aatgaataaa gtaatccttt catcaaattg gggtaaattt caagcatcag 1080
gagggggaaa tggagtggaa acagctgggg caaggaggca aagaagccag gcctgtttta 1140
caacaaatat taaattactt caataatata aacgagaggc ccggtgcggt ggctcatgcc 1200
tgtaattccc agtccttttg gaggctgcgg gaggattgct 1240

```

<210> 587

<211> 875

<212> DNA

<213> Homo sapiens

<400> 587

```

ggaarggttg taggacttaa tcacgtttca gcttggctgt cgggctgtga gtcacggttg 60
cactgcgatt atgtaagcac gcaggaatag gtggcatgac atatatgctg ccagcagcca 120
cgggcctcgc ccttccgagt caccactact ttttaagcct ttttttggat acaagtttct 180
ttgggttcat ctttgraatg raaatgraag catgattgca gaataggcag amcaggaatt 240

```

412

```

atccatcaat cagagagamc ccagaccttt aagagaagct ggaattagaa tatggaattc 300
ctgagccttg agctggcata gccgagccct ggtttatgct cttcctgcct ccctcctttt 360
ttccctcctg cctgtgtgct ccacttcctc tcctgagact cccccaaggt agcatcactc 420
ccaccaggag ccttaggcag gaaaagtaag gccagagaa gggactgtcc ctggggacgt 480
gcactgagtg tgtgtgaggg tgcggggcag gaataggagt gccaggagtc tacctctgga 540
gcaatgcctc ccacagtatt tctgtagggg aaaggataga aactcacttc ttgggttcct 600
ccaatcacca tgcacatgtc agtccttcag ctatcaatgc aaaggaaacc cagaactgag 660
atctgagctt tctcaccatc tccatggtca gatctctcca ctgccaaagg gttcattccg 720
cctctggggt tatctctttc ttcattgctt ttcctggcag tgcctgttg aagcttacct 780
tcccatctgt gtttgcattc actccctaaa aactacaaga caaaaaaaaa aaaaaaaaaa 840
tcgagggggg gcccggtacc caattcgggc tatag 875

```

<210> 588

<211> 1517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<400> 588

```

gttgagtctt tgggtgtgct tttaatggct tctctgcctc ttccttaggt gtcaggctgc 60
tctacctgtt tctagacgct cttcctttcc cccttccaaa cctcttttct tccttgctgc 120
tttcctatct tctgtggcta gganatcagg taatcaagcc tgtgttttct gtaatgagta 180
agtgggttgc cagcgaggct tctgtggatg ctcctgtgag tcaagtgcag gagctttagt 240
gcatggactt tgggttcttg gttccacag cttatatgtt ttgggggctg ctttcttgct 300
ctttaccac attctgtgtc atgagtgtgc cgggtagggt gcctcctgcc cgatggaggc 360
tgagcatctt ggcagtgtcc atcatgcctt gcgtgtgcct ggctcttttg ctgcagatac 420
tatggaccgg cagctcatcc cctgctcacc acctggcctc tccttttctc tgtgtgcaga 480
tctggcagtg tgggtgggtt ctggaaacac acctatgttc ccatgttggc catgttttcc 540
ccaagcaagc tccctactcc cgcaacaagg ctctggccaa cagtgttcgt gcagctgaag 600
tatggatgga tgaatttaaa gagctctact accatcgcaa ccccggtgcc cgcttggaac 660
cttttgggga tgtgacagag aggaagcagc tccgggacaa gctccagtgt aaagacttca 720
agtggttctt ggagactgtg tatccagaac tgcattgtgc tgaggacagg cctggcttct 780
tcgggatgct ccagaacaaa ggactaacag actactgctt tgactataac cctcccgatg 840
aaaaccagat tgtgggacac caggctcatc tgtacctctg tcatgggatg ggccagaatc 900
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gcattgctgt ggaagcagga atggataccc ttatcatgca tctctgcgaa gaaactgccc 1020
cagagaatca gaagtctatc ttgcaggagg atggatcttt atttcacgaa cagtccaaga 1080
aatgtgtcca ggctgagagg aaggagtcga gtgacagttt cgttccactc ttacgagact 1140
gcaccaactc ggatcatcag aaatggttct tcaaagagcg catgttatga agcctcgtgt 1200
atcaaggagc ccatcgaagg agactgtgga gccaggactc tgcccaacaa agacttagct 1260
aagcagtgc cagaaccac caaaaactag gctgcattgc tttgaagagg caatcatttt 1320
gccatttgtg aaagtgtgtg tggatttagt aaaaatgtga ataagctttg tacttatttt 1380
gagaactttt taaatgttcc aaaataacct attttcaaag ggtaatcgta agatgttaac 1440
ccttgggtatt tagaaaatta aaaccttata atatttttct awmaaaaaaa aaaaaaaaaa 1500
aagggcggcc gctctag 1517

```

<210> 589

413

<211> 871

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (863)

<223> n equals a,t,g, or c

<400> 589

```

gggagcgggag gncaggaacc caataagctg cttgcctcg gagctgaagc ccgtactcaa 60
gatggcgggct ccgggcgggc gtggccagtg actagaaggc gaggcgccgc gggaccatgg 120
cggcggcggc ggacgagcgg agtccagagg acggagaaga cgaggaagag gaggagcagt 180
tggttctggg ggaattatca ggaattattg attcaractt cctctcaaaa tgtgaaaata 240
aatgcaaggt tttgggcatt gacactgaga ggcccattct gcaagtggac agctgtgtct 300
ttgctgggga gtatgaagac actctaggga cctgtgttat atttgaagaa aatgttgaac 360
atgctgatac agaaggcaat aataaaacag tgctaaaata taaatgccat acaatgaaga 420
agctcagcat gacaagaact ctccctgacag agaagaagga aggagaagaa aacatagggtg 480
gggtggaatg gctgcaaata aaggataatg atttctccta tcgacccaac atgatttgta 540
actttctaca tgaaaatgaa gacgaagaag tggtagcttc agccccagat aaatcttttg 600
aattggaaga ggaagagatt caaatgaacg acagttcaaa cctgagttgt gaacaggaga 660
aaccaatgca cttggaaata gaagattctg gtcctcttat tgatatacct tctgagacag 720
aaggttctgt ttttatggaa actcaaatgc tgccttagaa atcactccta gatgaaatgt 780
ttctcataat aacttgtcaa gaacttttta gagttgttac ataaaaataa ttgctgtgta 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa t

```

<210> 590

<211> 1566

<212> DNA

<213> Homo sapiens

<400> 590

```

ctttcatact acccttttagt cataaggaga aaaaaaact caaatagtag aagcagcaag 60
tagcaaactt caggagagct actttctatc caaataattt aaaaaaact tttcacctac 120
tcctttcatg gttataaacac attggcagac tttttgctgg ctctgggagc catgatttta 180
atcacattct gcaagggtgac aaatgtcata cattccacat tgtgtggtag ccactctctt 240
agactcatgt gttttgggga aaggaagaag ttcttggtcg agtactattt tgaactttcc 300
agaaccctct cacaccagag acagttcttc tctgttcagt ttccaatccc cgataatttg 360
ctaaaataac attgtacatc caagagaggg aagaagagta tgtcagtata ttatgcagaa 420
gatagataca gcctttttcag aagatctcca ctagtttttg ttccaaaaat tcaagtttat 480
gggagaaatc tcaattagcc accttttcac agttgtgtgg atataacatt tgggggatct 540
ttctggactc ctacctatct gtgcatttta ccggcacctc aggaaaggag ggtgaccagg 600
ttgtcttagc ttgtactgct tgggtgatctc tgaggacctt ctaattcagt tgtaccccag 660
tgttccatgt atagaaaaaac ttcattagaa caaactttac ttgatatgaa actcctatta 720
acagtctttt tttgaaaataa aaagtagctt gagctttctt ttaaaatcat gtatcttgat 780
tgttgattta atgaaggatt tccttttaat gctgcttttg agcttcaagg taataggaca 840

```

414

```

gcaggaacct aaaatatctg ccatcatctg ccataggaaa gatacccaga gacccatcat 900
gttctctttt tgttgttaca ctgttgggtg ggtataacaa ttggaaaatg aacaaactga 960
ttgattgtgc aaactacttt ttatgacaag cctaaaccct cataatgcgg cagcttaaag 1020
tgtatacata tgcactaact ttgatcaatt atattctcat atctgttagc tacacagtct 1080
cctattatct caattgctta tgtgcatatg gaatatgtta cttaaaacgt gtgcattctt 1140
actgaaaatg ttttcaaagg aaggatcag ctgtgggcta attgccacca atttcagcct 1200
gccacgattc ttggaaatat gtcttccaag tgccatccat catcagtagg acaagtgtcg 1260
ggagtttgtt tatttttttc cagtagcaac gatgggttac atggagccat gaaacctcct 1320
tctggcctcc cttgtgatta atggcatgtg tttgtaaaat ggatagctgg ggttggcaga 1380
tggctagaga agaatcgctt ttggtttaaa atgtatgtgg tcccctaatag attgtgaccc 1440
cattctgtaa tcaactgagc tagttccaat aaagttaagc aggttttaaat ccactttgtg 1500
cctatctttt cactgacaat aaagttagct attttaaaat gcaaaaaaaaa aaaaaaaaaa 1560
aaaatt
1566

```

<210> 591

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 591

```

accttgagtg tccttggcaa cctagccttt gacattgatg tttttccata ggattttctt 60
catttggggtt ggaataaaaa tgcattttta ttcacaaggc acagacagat aagaatatca 120
taagcagggga agtgtctcca aaggtcagga cttatgtttt tctgttgagt gctatatgtg 180
gaggttattg caagttccct gatatgagta tggtttcgct tgctacattg tgcctattaa 240
agtaaaattt tacacaagcc tcgcatttct aagattagtg ttcccgaatg aaatgtnaa 300
gaaaacatta aaagattatc tctttttaag atggaggaaa aaaagtgaac aaagctaatt 360
aatctataat gaaaattgca caaaataaca tttcttaaca aatttaatac aattttgtgt 420
tctttgttgc tagtggtata aaacgagatt tttttccctc atttttctca ttgtagatgt 480
catctctcac atttatatca gtgagggttg aaattctgtg tagcagttac tcagcacata 540
tgagaggggca gcgaatgaat gagatttgct atgtgctaataaaaagctgaa tttttgtaat 600
ctaaaatgat gtatttttcta ctattgctgt taatttgcattgttaaaaaat tcttaaagtt 660
taatatgtta tgttcagtca ttgaaagcga ccactcattt ttttcttaaa gttgatgcct 720
tttctgctgt gctagagtca gtattttgct tctggcagga gagctgcaaa ctgtgtatcc 780
tcaaacagat gcaaaaagta gtgctttgca aaacgtttgt tttctgttta tctcagatta 840
acatccttta atacaagttt cttaagtgtta acttgtattt ctgaaaatgc ttaaaattat 900
tttatatttc cctttgggaa tttttctcta tttccagcac gctgatttga tttaaaaatg 960
taataagacc aagagttgga gtaaagggat attcattcca tgtaaaaagt ggcttcatag 1020
ctactgacaa atgtctgaac tattgtcgtg cccttcaaaa ctggagtttt ctaaaataat 1080
cttattttta tacttgtatg ttccagcaat ttaagatata taccattgaa agggaaataa 1140
aacatttttg tttatttgaa taaataatac tcccaaaaaa aaaaaaaaaa aa 1192

```

<210> 592

<211> 401

<212> DNA

<213> Homo sapiens

415

<220>
 <221> misc feature
 <222> (220)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (361)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (400)
 <223> n equals a,t,g, or c

<400> 592
 ttattttggaa gacattathtt gtggaacata atggcataac atttacatac gttcacctwc 60
 tgacttttgag tatgaatgtg taggttgtgt atatgtgtga atatatatac accacgatgt 120
 cattctaagt gtttggaaat aactgttcat acatgtrgtt taccttcttc cttggaatta 180
 ctatcttgta atatggcatt aaagaattat cccatctctn aagtcctttg cctgggaaac 240
 atggtgaact ggaggatcct tacacattct gtgtgaccag ctattaaaca gaatgaggac 300
 taggtctctc tgtcactgac ttgggaaggt aatgaaatgt tcagggaacc agtattgaca 360
 ncttgcagct tttgccccgg ttttgtttcc caggtgattn a 401

<210> 593
 <211> 654
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (71)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (545)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (564)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

416

<222> (592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 593

```

gtccggctta ctttttataa cttgaatggt aaggaatgga ccatgggcta ctactgggca 60
ttagtgccat ntaaccagcg ataataaaat tctctattag tctgttaatt tatgaccatg 120
atctcgggaat ggaaaaagat catttccaga gtgtgcgaaa taatagtctt taaccatgta 180
attaaatatg tgtgtttatt gtcaataaag gatttgtttt aaagggtgatt cttgggtttg 240
aagacatttg ttaattcatg gtctgtacag aaatgaagct gggtgcaata ccaatctaga 300
gagtcgaagc tggcgaacta ttaagctggt taaagatcac ccttggcctg gcacagtggg 360
tcacacctgt aatcccagca ctttgggagg cctaggcagg cagactgagc tcaggagctt 420
gagaccagcc tgggcaacat ggcaaaaacc cacctctaca aaaagtacaa aaatttagtcg 480
ggcgtgatgg caggcatctg tagtcccagc tacttgggaa gctgaagtgg gaggatcacc 540
tgganctctg gatgtggaag ctgncatgag ccatgatcgt gccactacac tnnagcctgg 600
gtgacagaat gagatcctgt ctcaaaaaaa aaaaaaaatc acccttaaata caac 654

```

<210> 594

<211> 682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (673)

<223> n equals a,t,g, or c

<400> 594

```

tgggaaggagc agcagttttg caaggtaagc agggcagaga cacagcccat ggccccctcat 60
tgccctgctg gtaagggctg atggarctcc cgcagcgtg gttectgect ggktgacaga 120
ggctcctktg gccacttttag aartgcggtt tactcctcat gccgagatgg accttgggca 180
gctcagttca caagatgttg gtcaggcgctc atttaaataat tttcagtcag cagaggaagc 240
aaagcgtgcc attgaggctg tgctgtcagc ggatcctcgg tctgtgtacc gccggaagct 300
ttgccaggac cgccttttct actttactgt agacatagcg catgtcactt gctgggtttg 360
tgatggcctt gcagagggtc tgaggatcaa gccggcttct gagcctgttc atatgactgg 420
ccctgtgggg tccttggtgt ctctagggtc ttaaggagcc tccctcatgt ctttaaggta 480
gcatcattga tctttggatg tggccttttg attttctgaa caagctaata ttgtgtcrag 540
aagcaacact ttgtgatctc atggccttga ttgatttggg ctgttcaaaa tgtttatattg 600
aaaaacgtat acattaataa acttaacaaa gagatataaa aaaaaaaraa aaaaacccga 660
ggggggggccc ggnacccaat tc 682

```

<210> 595

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 595

417

```

cagtctcagt tggagggctg atartaaacc ttattggtat ctgtgccttt agccatgccc 60
atagccatgc ccatggagct tctcaaggaa gctgycactc atctgatcac agccattcac 120
aycatatgca tggacacagt gaccatgggc atggtcacag ccacggatct gcgggtggag 180
gcatgaatgc taacatgagg ggtgtatttc tacatgtttt ggagatata cttggcagca 240
ttggtgtgat cgtatccaca gttcttatag agcagtttgg atggttcac gctgaccac 300
tctgttctct ttttatttgc atattaatat ttctcagtgt tgttccactg attaaagatg 360
cctgccaggt tctactcctg agattgccac cagaatatga aaaagaacta catattgctt 420
tagaaaagat acagaaaatt gaaggattaa tatcataccg agaccctcat ttttggcgct 480
attctgctag tattgtggca ggaacaattc atatacaggt gacatctgat gtgctagaac 540
aaagaatagt acagcaggtt acaggaatac ttaaagatgc tggagtaaac aatttaacaa 600
ttcaagtgga aaaggaggca tactttcaac atatgtctgg cctaagtact ggatttcatg 660
atgttctggc tatgacaaaa caaatggaat ccatgaaata ctgcaaagat ggtacttaca 720
tcatgtgaga taactcaaga attaccctcg gagaataaac aatgaagatt aaatgactca 780
gtatttgtaa tattgccaga aggataaaaa ttacacatta actgtacaga aacagagttc 840
cctactactg gatcaaggaa tctttcttga aggaaattta aatacagaat gaaacattaa 900
tggtaaaagt ggagtaatta tttaaattat gtgtataaaa ggaatcaaat tttgagtaaa 960
catgatgtat tacatcatct tcaaaaatag atatgatgga ttctagtga gaccaaaatt 1020
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tacaaagacc caaatgaaaa attttttagtc cattttttgc atagcctaaa gataaaatag 1140
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aagtccatta agtaaaatct gtattgccac tttaaatgta aactaaatta tttgggagaa 1260
acttcaacca ctgatatgag ataagcaatg agaataggga agtgtataac atcacagttt 1320
ttgatgtatt acaaaaatca accactctat aaaataaatt ttttttactt ttggtaatat 1380
ttgcaaatga ataattaatt tattagggta aagaacttat actaagttgt 1430

```

<210> 596

<211> 1597

<212> DNA

<213> Homo sapiens

<400> 596

```

gctagtcctt cggcgagcga gcaccttcga cgcggtccgg ggacccctc gtcgctgtcc 60
tcccgcgcgc gaccgcgctg ccccgagcct cgcgctgccc ggccggtccc tctgttccca 120
ctcccggcgc acgcccctcc ggcagtcctc ggcccctccc gcgcccctct tctcggcgcg 180
cgcgagcat ggcgcccccg caggctcctc cgttcggggt tctgcttgcc gcggcgacgg 240
cgacttttgc cgcagctcag gaagaatgtg tctgtgaaaa ctacaagctg gccgtaaact 300
gctttgtgaa taataatcgt caatgccagt gtacttcagt tgggtgcaca aatactgtca 360
tttgctcaaa gctggctgcc aaatgtttgg tgatgaaggc agaaatgaat ggctcaaac 420
ttggggagaag agcaaaacct gaagggggccc tccagaacaa tgatgggctt tatgatcctg 480
actgcatga gagcgggctc ttttaaggcca agcagtgcaa cggcacctcc aygtgctggt 540
gtgtgaacac tgctggggct agaagaacag acaaggacac tgaaataacc tgctctgagc 600
gagtgaagaac ctactggatc atcattgaac taaaacacaa agcaagagaa aaaccttatg 660
atagtaaaag tttgcggact gcacttcaga aggagatcac aacgcgttat caactggatc 720
caaaatttat caccagattt ttgtatgaga ataattgtat cactattgat ctggttcaaa 780
attcttctca aaaaactcag aatgatgtgg acatagctga tgtggcttat tattttgaaa 840
aagatgttaa aggtgaatcc ttgtttcatt ctaagaaaat ggacctgaca gtaaatgggg 900
aacaactgga tctggatcct ggtcaaaact taatttatta tgttgatgaa aaagcacctg 960
aattctcaat gcagggtcta aaagctgggt ttattgctgt tattgtggtt gtggtgatag 1020
cagttgttgc tgggaattgt gtgctggtta tttccagaaa gaagagaatg gcaaagtatg 1080
agaaggctga gataaaggag atgggtgaga tgcataggga actcaatgca taactatata 1140
atttgaagat tatagaagaa gggaaatagc aaatggacac aaattacaaa tgtgtgtgcg 1200

```

418

```

tgggacgaag acatctttga aggtcatgag tttgttagtt taacatcata tatttgtaat 1260
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gaccacaagt gtcttatata tgcagatcta atgtaaaatc cagaacttgg actccatcgt 1380
taaaattatt tatgtgtaac attcaaagt gtgcattaaa tatgcttcca cagtaaaatc 1440
tgaaaaactg atttgtgatt gaaagctgcc tttctattta cttgagtctt gtacatacat 1500
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<210> 597

<211> 602

<212> DNA

<213> Homo sapiens

<400> 597

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ggcaggggtg gagccctcat ggagaacctc tgtaggggca gtgcagaaga gaaatgtgag 60
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gccactattc tccagatccc agaattggtag atcaaccaac agcttgcact gtacatctgg 180
aaaagctgca gacactcaat gccagcctat gaaagcagct tggaaatgggg ctgtaccctg 240
caaaggcaca ggggcagagc tgccaagacc atgagagtct acttcttcca ccagtgtgac 300
ctgaatgtga gacatagagt caaaggagat tattttggag ctgtaaaatt caatgaatac 360
cctgctggat tctggacttg tcattggctt ttagccctt tgttttgtcc aattctccta 420
tatggaatgg gagcatcctc atccaatgcc tgtaccctca ttgtgtctta gaagtaatta 480
acttgctttt gattttatag gccatgctaa tcagcattca gttctagatt ccaatttatt 540
ctcagtgtgc ctgtataact tttctttcta tatatatata attaaatttc tattacttat 600
tt                                                                                   602

```

<210> 598

<211> 432

<212> DNA

<213> Homo sapiens

<400> 598

```

gctcgtgccg aattggtgcg gcgtcaggtg cgcccgccag gtgagcgcgc tccctggcac 60
cgttggcccc cggagggtcg ggcccagttg cggcgagcgg attgggtttat cttggaagct 120
aaagggcatt gtcacatcctg aagatcagct gaccattgac aatcagccat gtcacccagg 180
cctcttgaaa gtccacctcc ttacaggcct gatgaattca aaccgaatca ttatgcacca 240
agcaatgaca tatatggtgg agagatgcat gttcgaccaa tgctctctca gccagcctac 300
tctttttacc cagaagatga aattcttcac ttctacaaat ggacctctcc tccaggagtg 360
attcgatccc tgtctatgct cattattgtg atgtgcattg ccattcttgc ctgtgtggcc 420
tcacgcttgc ct                                                                                   432

```

<210> 599

<211> 1319

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

419

<400> 599

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tgtgtgttca caaccaaagt ttgatgcctt tatctactga taatatcctc tcaatgttca 60
ctgaggcata gaaattatct cagagtagaa attgcagcat gaggataaac tcacctcttt 120
gttctgaaaa tagaacttta tcaactatgt ttccggtggt tttccctttt acaatcgaaa 180
tcttgtgcct cccaagtgca ttggaaaagt acaaaagcct gtctctccaa attcctatct 240
aacagtttga tttttttttt ttaatcacca tctttcaa attagctcaa ctctcaccaa 300
gtgaaaattg gctacttggg agaaagttaa ctttctatgg tgggatgggt aaggatgagg 360
gacagtttac ataggaaaag aaaaaaaaaa gtctaaagtc catgttgaaa aaccacacta 420
ccacttatct tctgctaacc ctaaattatt tttgcgtata cgcttgaggt tatagtctgt 480
gcctagacct aaaatgcacc agcggggggg attttaaaaa atccttcaaa ataccagttt 540
tttcccaaca agtacaattg ttcttgtgcc ttctgtggct ttcgatttca nctttttkac 600
tttwtttcca attactacag ctgcaataaa cactagattt ttttctggc tgtttgacat 660
aacgttgata gctatgcata tkttgtgtct ttttaaaaca aagcgggaga atacgttttt 720
gaagaagaga attttttagaa cagtttgata ccgcaaatta ttttycctc aattgtttga 780
gcagcattcg agttttgaaa attctttaga aagccaattt tttgtaactg tggtgcaaat 840
cttgtgtttt cttagcctaa tgaaaagtag tatagaagca atatttcata ccatgtgcta 900
tatatgtgtg cgcagatgtg tgaacataaa atcacatata cacatatata cacatgtaaa 960
aatatacata tatatatatg cgtgtgaagt ggaaagctta ctttttccta tctagattta 1020
agaacctatt ttagacattt gttatgtttt gtgaaaagaa tgttctatct gcaacaaaac 1080
atttaattct tactgtatct ctggctgttt aatgaggacg tttcacatta aatggtaaaa 1140
cacatggaag atgttagaat gtagtaatta ttttaagtaa cgttcaccca catattcctg 1200
aagtttgctt tgtgcctccg agtattatct aattaaagaa gtgttttatg tttgcagaat 1260
ctttgtcact gtactagggg tgtgggtgaa tatcatttaa aaaaatttaa aacaacaaa 1319

```

<210> 600

<211> 973

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (942)

<223> n equals a,t,g, or c

<400> 600

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ctcacctccg agagctagac tttggccagg catggctaaa accactgggt aacgatgtga 60
cagttatgat cttggagatt ggaaatcttt cttccacatt agagttcttt accttaattc 120
cttattctga aaaattgtaa gattttatga aggtttgaat actgaagcac agttctgctt 180
tcaaaaatta aaattcaaac ttgaaaaagc tgtttaacct atggaagata tcatttagta 240
agatgtaaaa gattttttta atctacactt cagtttatac atctttatca ttatcaatac 300
tatataagtt actgtgagca ttttagagaa ttccataaag gtactatgag tgtgtctgta 360
tgtgtgtgta tatatagcat tgtattta atagactaa atttaatttg atatagaaat 420
actactttac ttgtacatta aggtcataat ttctgtctga ctctttttata ttttaattaat 480
ggggattata gtcttccttc ataaatgcat ttaaacctga aattgaacac cagtgttttt 540
ctttttctac ttatgggaag ttgtctgctt ccccttttag agaaaacagt atttttatat 600
tttgttaaaa tattaactac tttatgccta cacactatgc tgtagatact gatcataatt 660

```

420

```

cttgggtgtt cacaacact cctagwgcc cttttttggc ccgttgaaag tgttggtatt 720
actactttca ctacagagcc ttggncctc taataatgct gaggtgggct gatccttccc 780
mtttctgtcy tcgggtcatt ctgggtaggg tcttctcctc cactgtcaag gtaaggcaat 840
cagggtcctg gacaggggat tgggacatat ggaacaaatt aaggtgggat acacacagt 900
aggaaagggt acatggcatt ctatggggaa ccaactactg tncaataaca tctgatgtta 960
acatggcaca tta 973

```

<210> 601
 <211> 1473
 <212> DNA
 <213> Homo sapiens

```

<400> 601
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gtaatgaatg taattgtact ttttgatgtg cctctgcact tggcttggtg agtcatcata 120
aatagctgtt aaatatgtga ctttacagat tttgatatgt tcagattgta aaaaatgaat 180
agtttatttc attaatgtat gggcagtcac gaatctccct cccttcagta gggctgacac 240
ttaggagtta ggtcatggtt gtggttactt ggcattggta atcagatttt gttctggtca 300
gaatttgccc aagatcaata cccagcagaa actggagtta ggctataaaa aaccattcat 360
gtttccgagt gatcatttca gtcagcgatt catgttttac agtggttagt tgttgattat 420
tagaaaaagt aatattttct tccctttatg attacatcat tataaatcaa gtccttccat 480
gaacacattt aaggtgtgtg gagatgagat gtctgaatcc atttggggat gggctgacat 540
tttgggggaa tctatgcctg tccagtgaag agtgcctaaa acattaatta tagatcaaag 600
atgttctgtt gagggacaaa gcttgatggt catcaaacac aaggctttgt aaaaatacga 660
ccacctattc cacttactgg atctgtcagg tgtgtaaaac ttctctcgcc agttcatcat 720
gcttccatga gccctcagga ctgggatttg agccttcttg gctctttatc ccttggggca 780
gacatggaac catctctgag ggaccaggtg gatgctgaag ctacccagat cagggcccct 840
ctcctagctc cttttacact gaaattaatc tgaaagcttt catagccaag gctttgctag 900
gtgctattat tccagctggc caaagagaag tcttggggca gattgggatt ctcaatggat 960
tttatagaca taattccctt gcaaacttaa aaaaataaat aaccctact ttataggact 1020
aattgtttga attgtatctt tctctgtatg ttaaaccaga tttaaaacta ttttataacc 1080
acaatatgta atcagagcaa tatagtgttt tcagatatat acctgttttt ataccttatg 1140
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tttgggagtg acttaaggcc ttttgaagtg gagcttttgc actttatact ttttctgtga 1260
actatgataa ctatatattg tattaaagct gtaagtggca ttttcagcaa atgaatatgt 1320
acatgtttgt gtctatttcc aaaatgattt ctgaactatc tgcagtgaag atgtatctga 1380
tggattgtag agcaaagcac attgcctaaa ttcatttgtt aatgaattgg gtaccattgt 1440
tattaaaaat gcgtaaagta aaaaaaaaaa aaa 1473

```

<210> 602
 <211> 481
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (480)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

421

<222> (481)

<223> n equals a,t,g, or c

<400> 602

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gccttcacat tggctttccg gggcttaaaa gcatatcatt cctgattctg cagctgggtc 60
tctctccaag cactagcaaa accctgccct aggagccccc agactctgag agcccatgac 120
caaaaagaaa aggaaagcca agttggggaa gaacagggcc cccaactcca cagccctcca 180
ctctssccag agggcccacc ctgggctgcc tggaaacccc taaagttgcc acccccgcaa 240
cacagtagtg gggcagttcc tggcagcgcc tgcagcccat gggctggctc tgtaccgcga 300
gccccgccaa gcgtctgtta tcttattttac tggaatctgc acagccaggc tctagctcac 360
cggtgactaa ggagctgcag ccattattac caggcagatg gcagactccc taaaagcaga 420
cattaacaaa taaaatgccca ccacatacct tgcccacaaa ataaaatcaa aacaaaccan 480
n 481

```

<210> 603

<211> 1667

<212> DNA

<213> Homo sapiens

<400> 603

```

gggaattatt tcacaatact gatagtactg ggaattgtka aataattcct ctgaaagata 60
agaatcactg gcttctatgc gcttcttttc tctcatcatc atgttctttt accccagttt 120
ccttacattt ttttaaattg tttcagagtt tgtttttttt ttagttttaga ttgtgaggca 180
attattaaat caaaattaat tcatccaata cccctttact agaagtttta ctagaaaatg 240
tattacattt tattttttct taatccagtt ctgcaaaaat gacctataaa tttattcatg 300
tacaattttg gttacttgaa ttgttaaaga aaacattggt tttgactatg ggagtcaact 360
caacatggca gaaccatttt tgagatgatg atacaacagg tagtgaaaca gcttaagaat 420
tccaaaaaaa aaaaaaaaaa aaaaaaaaaa gmaaactggg tttgggcttt gctttaggta 480
tactggatt agaatgagtt taacattagc taaaactgct ttgagttggt tggatgatta 540
agagattgcc atttttatct tggaagaact agtggtaaaa catccaagag cactaggatt 600
gtgatacaga atttgtgagg tttggtggat ccacgccccct ctccccact ttcccatgat 660
gaaatatcac taataaatcc tgtatattta gatattatgc tagccatgta atcagattta 720
tttaattggg tggggcagggt gtgtattttac tttagaaaaa atgaaaaaga caagatttat 780
gagaaatatt tgaaggcagt acaactctgc caactgttac cagttggtat ttctacaagt 840
tcagaatatt ttaaacctga tttactagac ctgggaattt tcaacatggt ctaattattt 900
actcaaagac atagatgtga aaattttagg caaccttcta aatctttttc accatggatg 960
aaactataac ttaaagaata atacttagaa gggttaattg gaaatcagag tttgaaataa 1020
aacttggacc actttgtata cactcttctc acttgacatt ttagctatat aatatgtact 1080
ttgagtataa catcaagctt taacaaatat ttaaagacaa aaaaatcacg tcagtaaaat 1140
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atgatgattt aaaatggtgc ttgtaataca gttttgcctg cttaaattctc cacattttgt 1260
aacctgtttt atttcttttg gtgtaaagcg tttttgctta gtatttgtat attgtatatg 1320
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tcttaagtac tgtagaaaag atgtcacttc ttcctttaag gctgttttgt aatatatata 1500
aggactggaa ttgtgttttt aaagaaaagc attcaagtat gacaatatac tatctgtgtt 1560
ttcaccattc aaagtgtgtt ttagtagttg aaacttaaac tatttaatgt catttaataa 1620
agtgaccaa atgtgaaaaa aaaaaaaaaa raaaaaaa aaaaaaa 1667

```

<210> 604

<211> 1193

422

<212> DNA

<213> Homo sapiens

<400> 604

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aaccttgcta aaggagtgat ttctatttcc tttcttaaag aggaggaaca agaagatgag 120
gaagaaatcg atgttgtttc tgtggaaaag aggaggctc ctggcaaaaag gtcagagtct 180
ggatcacctt ctgctggagg ccacagcaaa cctcctcaca gccactggg cctcaagagg 240
tgccacgtct ccacacatca gcacaactac gcagcgctc cctccactcg gaaggactat 300
cctgctgcca agaggggtcaa gttggacagt gtcagagtcc tgagacagat cagcaacaac 360
cgaaaatgca ccagccccag gtcctcggac accgaggaga atgtcaagag gcgaacacac 420
aacgtcttgg agcgccagag gaggaacgag ctaaaacgga gcttttttgc cctgcgtgac 480
cagatcccgg agttggaaaa caatgaaaa gcccccaagg tagttatcct taaaaaagcc 540
acagcataca tcctgtccgt ccaagcagag gagcaaaaag tcatttctga agaggacttg 600
ttgcggaaac gacgagaaca gttgaaacac aaacttgaac agctacggaa ctcttggtgcg 660
taaggaaaaag taaggaaaaac gattccttct aacagaaatg tcctgagcaa tcacctatga 720
acttgtttca aatgcatgat caaatgcaac ctcacaacct tggctgagtc ttgagactga 780
aagatttagc cataatgtaa actgcctcaa attggacttt gggcataaaa gaactttttt 840
atgcttacca tctttttttt ttctttaaca gatttgatt taagaattgt ttttaaaaaa 900
ttttaagatt tacacaatgt ttctctgtaa atattgccat taaatgtaa taactttaat 960
aaaacgttta tagcagttac acagaatttc aatcctagta tatagtacct agtattatag 1020
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tctattgttt ttagaaaaaa taaaataact ggcaaatata tcattgagcc aaatcttaaa 1140
aaaaaaaaaa aaaaggtcga gccggccggc taattagtag tagtaggcgc cgc 1193

```

<210> 605

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 605

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aatgccaaaa gtacttcccc tgtttccaca agctcgttta catcctcagc ccttgagaag 60
cccagtcagg aagcataacc tgatagcttg ggctgatgca atmacagaaa ctctggcctg 120
ctgtagcttt tgttctgctt aaagtgcagg cagagcagag cagagcagta attggctgtg 180
aatgaaaggg gattgtcaga atgagcctaa gttccggwtc taccaccgca gtttcgtatt 240
tgggccctgt tttaagccag ggtggctggg tgggtgaagg catgtgcgac ctcaggaggc 300

```

423

tgtcttgtca cctccctcat gtcaatagga agggaggtat tctccctcct ccagaatata 360
 caggataatc tgtcttgctt gctaanagca ttcacctttg acctttgcat tctttgggtc 420
 tggagatgtn tatgatch 438

<210> 606

<211> 2674

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1782)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1923)

<223> n equals a,t,g, or c

<400> 606

gttcgscgc acagcagccc gagcgcccc tttccrgagc tccccctccg agctgggac 60
 caggcgcgta gmggnatccc aggatcctgg gtgctgtctg ggcccgcctc ccaccatgac 120
 ctectcgggg cctggacccc ggttccctgct gctgctgccc ctgctgctgc cccctgcggc 180
 ctacgctcc gaccggcccc ggggcngcag acccggtcaa cccagagaag ctgctgggtga 240
 tcaactacac tgtgcggacc ctgggcctgg gagaggagtg gcgagggggg gatgtggctc 360
 gaacagttagg tggaggacag aagggtccggg ggttaaagaa ggaaatggag aaatacgtg 420
 accgggagga tatgatcatc atgtttgtgg atagctacga cgtgattctg gccggcagcc 480
 ccacagagct gctgaagaag ttcgtccaga gtggcagccg cctgctcttc tctgcagaga 540
 gtttctgctg gcccgagtgg gggctggcgg agcagtaccc tgaggtgggc acggggaagc 600
 gtttctcaa ttctggtgga ttcatcggtt ttgccaccac catccacca atcgtgcgccc 660
 agtggaagta caaggatgat gacgacgacc agctgttcta cacacggctc tacctggacc 720
 caggactgag ggagaaactc agccttaatc tggatcataa gtctcggatc tttcagaacc 780
 tcaacggggc tttagatgaa gtgggtttta agtttgatcg gaaccgtgtg cgtatccgga 840
 acgtggccta cgacacgctc cccattgtgg tccatggaaa cggtcctact aagctgcagc 900
 tcaactacct gggaaactac gtccccaatg gctggactcc tgagggaggc tgtggcttct 960
 gcaaccagga ccggaggaca ctcccggggg ggcagcctcc cccccgggtg tttctggccg 1020
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 actatcccc cgacagggtc acccttttcc tgcacaacaa cgaggtcttc catgaacccc 1140
 acatcgctga ctctgggccc cagctccagg accacttctc agctgtgaag ctctgggggc 1200
 cggaggaggc tctgagccca ggcgaggcca gggacatggc catggacctg tgtcggcagg 1260

424

```

accccgagtg  tgagttctac  ttcagcctgg  acgccgacgc  tgtcctcacc  aacctgcaga  1320
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gcaagctgtg  gtccaacttc  tggggcgccc  tgagccccga  tgagtactac  gcccgtccg  1440
aggactacgt  ggagctggtg  cagcgggaagc  gagtgggtgt  gtggaatgta  ccatacatct  1500
cccaggccta  tgtgatccgg  ggtgataccc  tgcggatgga  gctgccccag  agggatgtgt  1560
tctcgggcag  tgacacagac  ccggacatgg  ccttctgtaa  gagctttcga  gacaagggca  1620
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acacggagca  cctgcacccc  gacctctggc  agatcttcga  caaccccgtc  gactggaagg  1740
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catgcccgga  cgtgtactgg  ttcccactgc  tgtcagaaca  aatgtgtgat  gagctggttg  1860
cagagatgga  gcaytacggc  cagtggtcag  gcggccggca  tgaggattca  aggctggctg  1920
gangctacga  gaatgtgcc  accgtggaca  tccacatgaa  gcagggtggg  tacgaggacc  1980
agtggctgca  gctgctgcgg  acgtatgtgg  gccccatgac  cgagagcctg  tttcccgggt  2040
accacaccaa  ggcgcggggc  gtgatgaact  ttgtggttcg  ctaccggcca  gacgagcagc  2100
cgtctctcgc  gccacaccac  gactcatcca  ccttcaccct  caacgttgcc  ctcaaccaca  2160
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gagttggggg  atgggtctct  ctgtctcccc  acttcctgag  ttcattgttc  gcgtgcctga  2460
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cctctctcct  ccgcccacag  gggttcgtgg  gcacagggt  tctggggact  ccccgctga  2580
taaattatta  atgttcgcga  gtctcactct  gaataaagga  cagtttgtaa  aaaaaaaaaa  2640
aaaaagggcg  rccgctcgcg  atctagaact  agtc  2674

```

<210> 607

<211> 1609

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1593)

<223> n equals a,t,g, or c

<400> 607

```

cgggtcgacc  cacgcgtccg  cggacgcgtg  ggtgtcgatg  aaatcaagag  tgtgatgttc  60
tagttatttt  tttttatata  tattttttaa  tgttcaatat  tcaactattg  aaacaaatgt  120
acatctgtga  actagctaaa  atcatcttat  gtaccactaa  tatgcccgag  acattttgta  180
aaacagtcct  gatttgacct  ccaaggggat  ttattgaact  accagcagta  tctaggagac  240
cacgaaggaa  taccacgaag  gaatttatgc  tccagtgcct  gccataattt  gtctgagaag  300
gaatctgtta  aataaaaagc  tttatcctct  aacctttacc  ttcattcagc  cttataaaaag  360
gtcaaatggt  gatcttaagt  tttttagtca  caaatcttac  ttattcagta  ttagtgcgaa  420
gagtagaata  ctttcaagta  agcctaaact  tacatgaaam  caaattacat  aaatctagct  480
ctgagaatag  gaaattagtg  acaagatcaa  tctgtaagat  gttgagcact  tatctgaagt  540
aaatgggtaa  tgagtttcac  atcttataaa  tacaagttag  catgtgtttt  ctcaagagtc  600
caagggtttt  cattattgga  ctacagcttt  aatcttctaa  atgttattcc  ccaagattaa  660
agagcatctc  aagttagatc  accaaagatc  aaaagctaaa  accagaagta  tttttgtcat  720
tgtggtggtg  gtagtggttac  taattgccta  gattttttaa  gggaaacatt  tttttcactg  780
ggttgtttcg  ttgaaaaaaa  tagaagcaga  aacttgccca  aagtcacagt  ggtcaaactg  840
gaaattgcac  caaaacttgg  catactgggt  ctgaaatcca  tagtttttag  ccttatgtat  900

```


425

```

actggttaat ttggaaggaa gaaatatata cgttctgaag tgaagagtga gtgaaaggaa 960
gaattcagtg aatacattga taccttgata ttatctgcat tgtggctaca tgttactttt 1020
cttcacaaga gtgatataag tgaaataaag aatgattgga ctgggaraaa aatggctcag 1080
aaaactttgc aaaagtayga ctgtatgtaa agataagtat tcaacattaa atgggaaggaa 1140
ggagagcaag cagttttaata tatagaattt tataaatttta ggcttgcaag ggaccttata 1200
aaacatgagc aatggaacac ttttttccaa actaaatttc gtgcagtgga acttggccga 1260
ctctgtcctt cctctattct aagcacccta ctctagcccg gctgctctga gttcagtttg 1320
ttacaaatat ggacacgaaa gtaccacagg ctttgcacag ctttaattgaa gtttccctt 1380
cacaccatgg taaaaaaaca tactgggatg gaagggtttg tgtctagaac argaacaaga 1440
aataaactct tggtcactta ctaatatctt aaaatcacaa agcagaattt tgcttggttg 1500
kttaktaaaa catccttgga aatttaactg cttgcagctt ctaccttytt cattaaatgc 1560
tgtctggcta ataaaaagtg ccatgtgcag cnttatctta atttcaatt 1609

```

<210> 608

<211> 920

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<400> 608

```

gacacgaagt ccgagaaatt gagcagcgac atatcaacac taccaaaaat aatccagtga 60
tgtcattgca agatcagggt cgctttgtaa agaataaac ttcttgaaa gagatgaaac 120
caggatttta tcatggacac gtttcttact tggattttgc aaaatttggt gtgaagaaag 180
aaaccaattt acattaatgt cntaagggat cctattgaga ggctagtctt ttattattac 240
tttctgagat ytggagatga ttatagacca gggttacgga gacgaaaaca aggagacaaa 300
aagacctttg atgaatgtgt agcagaaggt ggctcagact gtgctccaga gaagctcttg 360
cttcaaattc cgttcttctg tggccatagc tccgaatgct ggtaggggag ataaagttag 420
ctcagattga ttatcatcct tattatctct ataactctgtg tttcatttca caagggctag 480
atatagggaa atcggtgaaa gactagacta aaaataacat gtaattcagt aatatctagt 540
tttgcagtta ctttttaaag catttaaaag attcctcatg tagagtgata tcctaataatc 600
cttgcaattg tttctgagat gccgggtttt agtatttctt atttttggtg ttatgttttg 660
ctgtattcca gcagagctct tagagactgg ggggtggggg gggkgtcata aatcttattt 720
tgtccaaagc ttactgtttt agctattcat gttaaattaa gaaaaggctt agtgggttaa 780
aattcacctg gttttactgt taaactgatt ttgactttaa gagaagccaa ggttatggct 840
gtgggttagt ttgctagtaa atatcaagtg gaaaataaag atactttaat aaaaactgta 900
tttctcmeta aaaaaaaaaa 920

```

<210> 609

<211> 283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

426

<400> 609

```

acgcccgcag gtaccgggcc ggaattcccg ggctgaccca cgcgtccgaa ggaagaaggn 60
gggaaacctc aaatgaattc tgaaggggag ataccttccc tgccatcagg cagccaatct 120
gcaaaaccag taagccagcc caggaaatca acccagccag atgtttgtgc ctctcctcaa 180
gaaaagccac tcaggactct gtttcaccaa cctgaggaag agatagaaga tgggtggactc 240
ttcattccaa tggaagacaa gacaatgaag aaagtgagaa aag 283

```

<210> 610

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<400> 610

```

aaagcccaac ncccccgtaa acccagaatc tcccatatgg taacctgtgt gatgctccgg 60
attctcctcg ccagtggaag gcatcaaggg aagatagtggt tttatttagt cctattcgat 120
cctctgcttt tagtcctctt ggaggctgta ctccagctga atgtttttgc caaacagata 180
ttggtggaga taggattcat gaaaatcatg attctgttta ttacacctat gaagactatg 240
caaaaagcat ttcatgtgaa gtactaggct cagttcttcg taccaccat actaatatcc 300
tatcaaatat taacagtatt aaacatggag aaaataaaaac tgtaactttt aagcatggaa 360
accttgatca aaaaaataaa tctaaaaata aatccttaat gaaaaaaaaa nattaanaaa 420
aaagggcggt cgctctagag gatccaagct tacgtacgag tgcntgagac gacatagctc 480
ttctatagtg tcacctaa 498

```

<210> 611

<211> 1069

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (176)

427

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1060)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<400> 611

```

cctttgaaat acccctcact aaaggggaaca aaagctggag ctccaccgcg gtggcgggccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgagcggca cgaggtatcc 120
acagggccac agcgacacca ctgtggctat ctccacgtcc actgtcctgc tgtgtnggct 180
gagcgctgtg tctctcctgg catgctacck caagtcaagg caaactcccc cgctggccag 240
cgttgaaatg gaagccatgg aggctctgcc ggtgacttgg gggaccagca gcagagatga 300
agacttgga aactgctctc accacctatg aaactcgggg aaaccagccc agctaagtcc 360
ggagtgaagg agcctctctg ctttagctaa agacgactga gaagaggtgc aaggaagcgg 420
gctccaggag caagctcacc aggcctctca gaagtcccag caggatctca cggactgccg 480
ggtcggcgcc tcctgcgcga gggagcagg tctccgcatt cccatgggca ccacctgcct 540
gcctgtcgtg ccttggaccc agggcccagc ttcccaggag agaccaaagg cttctgagca 600
ggatttttat ttcattacag tgtgagctgc ctggaataca tgtggtaatg aaataaaaac 660
cctgccccga atcttcctgc cctcactcta actttcagtt cacagagaaa agtgacatac 720
ccaaagctct ctgtcaatta caaggcttct cctggcgtgg gagacgtcta caggaagac 780
accagcgttt gggcttctaa ccacctgtc tccagctgct ctgcacacat ggacagggac 840
ctgggaaagg tgggagagat gctgagccca gcgaatctc tccattgaag gattcaggaa 900
gaagaaaact caactcagtg ccattttacg aatatatgcg tttatattta tacttccttg 960
tctattatat ctatacattha tatattatth gtattttgac attgtacctt gtataaacia 1020
aataaaacat ctattttcaa aaaaaaaaaa aaaaaaaatn nctgcggcc 1069

```

<210> 612

<211> 899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<400> 612

```

gctttgtatt gcttatattg catctgagat tgtttgtatc ttttttcctt gactagtctt 60
gctagagggt tatcatattt attgtttttg ctttacaaag aagccaatat ttttgnnttt 120
cttctttgtt atattttctc tattttggtg atttcagctt tttcttttct atgttaatat 180
gtcatattat tgtagtggat ggtagctct tcaaattttc aactttctat tctgatttac 240
atatttaaag ctatagattt ccatgataat gctactttat ctcttgctgt agttttctat 300
gctgggtaac aaattaccac aggtttactg gtttataaca gcataatttt attatctcac 360
aatttcttgg gggttaagagt ttcagcatgg cttaactggg tctcacaagg ctgcagtga 420
gtcagctgaa ctryrttgtc atctggagct cacagttctc ttctaaatta atcagattgt 480

```

428

```

tgataaaact tagttccttg aagctgtaga actgaggtcc tcagctactt agggctgctc 540
ttttatataa gcagtgtaac gtgacatgcc tttttaaggt cagcagaact tctgactaga 600
atctgtttca gagaaggcca gaaagagttc acttggktag gtcagagwca cctgggatag 660
tctccctttt gattaagtca gagtcaacta aataggcacc ttaattgcat ctgcaaaatc 720
ctttcacttt tgccatattc tcttactaaa tgtaacaggc gttgtccaca caaaggtagt 780
gatatcgggc ttggaaagga tttcaggaac catcttagaa ttctgcctac tactaactcc 840
attctacaag tctcaatata tagcatttta gttattcact aactgcaaag ttttttatt 899

```

<210> 613

<211> 532

<212> DNA

<213> Homo sapiens

<400> 613

```

gaacactaaa cagactattt aacttgaggg taataaactt agaataaaat tgtaaaattg 60
tatagagata tgcagaagga agggcatcct tctgcctttt ttattttttt aagctgtaaa 120
aagagagaaa acttatattga gtgattatgt gttatttgta cagttcagtt cctcttttga 180
tggaatttgt aagtttatgt cttaaagagct ttagtcctag aggacctgag tctgctatat 240
tttcatgact tttccatgta tctacctcac tattcaagta ttaggggtaa tatattgctg 300
ctggtaattt gtatctgaag gagattttcc ttcctacacc cttggacttg aggattttga 360
gtatctcgga cctttcagct gtgaacatgg actcttcccc cactcctctt atttgctcac 420
acgggggtatt ttaggcaggg atttgaggag cagcttcagt tgttttcccg agcaaagtct 480
aaagtttaca gtaataaaat tgtttgacca tgaaaaaaa aaaaagtcga cg 532

```

<210> 614

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<400> 614

```

gctttgaaac caattgcaga ttgcttggtt ttatacaaac tttgattagt ctttggcagt 60
agaaggcagt ttgctaaagt ggctttacac ttgggattat gctgtttctt tggtgataca 120
taaagttcac atttttttt ttataacttc atgggtcaaga gcttggaag aaagcccaag 180
tctcacttga ggacctgatg taattgcttc tctttgagct ccgaagaaaa gattgaggag 240
ctgctctttt gatttgggga gtgagcaggt taagtgtctt tactttactt tgscacccty 300
gtacagacaa agtccggtta caaaggcggg taactccaat gtgctattct ttttttytta 360

```

429

```

ccagcttttac tggggataat gcacatactg tacaattcac ccacttaaag tgtacaattc 420
agtggggtttt agttttattca tggggggttgt gcaacccttn accataaatc tatttttagg 480
ggcacttttc atcatctcag ggnggaancc t 511

```

<210> 615

<211> 505

<212> DNA

<213> Homo sapiens

<400> 615

```

gctcggcgag atccagtgca cagcttgctt cactcttaga acagcggcat cctctatttg 60
gtctcgcacg gggaacttgc tggggtaggg gagagggtgt agagctttga aaaagctttg 120
cctctcggag gagtcaaagg ggcagtaact gtatgggggt agaggaaggc ctgcgaaata 180
aaaaggcaaa ggaaccgttt gaggaggcta gttgccttct cggggccggg gtgtgtgctg 240
gggtagtggt aagggggagg aaggagcccg kgagcccga ggacctccc ggagggtgctg 300
gcctgaaatt ccgctgggtg ccgggagggt ccgccctccg gactactgac ggccttcgca 360
gccaatgcgc agccaggacc tcgcgttcgg gagggcgggt acttcctact ccagccctgg 420
gctcggagaa ggccgcgtta gttctttttc tagggatgtc tgcggaaggg gcgccaggct 480
gagggccagc ctggagaaag aaaga 505

```

<210> 616

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (226)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<400> 616

```

tagggttcta ggccccgtt cctggggact tgaaggcggg tttacatact ggtcagacac 60
ggctggaggc caaggtcaag ttgaaagtgt cagtccagcc agcatgagaa ctgccatgct 120
agcgtagaga cacaggcagc agcaaaaagg ccattgccc catccctca ctcttaattt 180
tctctctctt tttaaaattc tcgcctctga ctgttcgggt gccanaatt ttttggtgcc 240
ttcgtggggg ttntggggcg gtgtttaccg actcttctct gcctccgcc tgctcagcca 300
gggctttgag cctcttcggt tttccggcca gaccggaaa aacgaaaaca cagcttgggg 360
agccccact agccggcgcc tgtgccagct cacctctggc catggcgag ctgccgggtgc 420
acacggcggc caaggccagc tccacattct tccctcccc tcccacttca ccgtagcccc 480
gaaccttgcg cgcagagaaa gggctctcagc tccacagac actgggtccc tcctcaccaa 540
aatgggtgag acaagatttc atctgtcggc cgaggagcca caagcagggt tgtctgagag 600
ggatgggtgct gggggaaggc tttggattgc atctcaaatt aagctttgct ccttaaattgt 660
ggcgtctcgc caagaaaaag cttggggcct gaattcttga gatttatggt gcaccttatt 720
gatcaaatat atctggactt ttttttagtt cccgatgtgt ccctatcatt aaaaaaaaa 778

```

<210> 617

430

<211> 750

<212> DNA

<213> Homo sapiens

<400> 617

```

acccacgcgt ccggtaaaaac gtcataaactt aaatatcaaa attaaaaata aatcaataaa 60
atagcatttt aggacatgct gttttgaatt catgccttcc ctttccattt tgttgatcat 120
cactgtttta gattcttaac ctctataaac tcttataaaa attggccact gcacccagcc 180
taggggtttt ctttttgagg tgataaaaat gttctaaagt ttatagtgat gatgcttgca 240
atttctataa gtagacttaa tgcagtgatg gttgcaaatt ctataaatat atttaatgtg 300
gtgatggttg caaattctat gaaaaaccca aattgtacaa tttcaatgag tgaaagcatg 360
ctatgtgaat gtcttcataa aggttttatt taaaaaatga gcaaacggta gaatgttaac 420
atggccacg tctatgtggt gtctatattg gtttctatta tatgttttct atgtggttga 480
aacattccta ataaaatgtg catagttttt taaaaaaraa aacacatcag tggacgtgaa 540
tgcaggatgt cttatgaatg ctcacacaga agtctccatt cgtgaggaat gcagggaaaa 600
gcagaagatg gagtaggagt tggcatggcc cagctagctc agatgacaca cgatggtccc 660
agtggcatga cttggtttgt gtgatttgtg ccttgggggtt ttattttggc acattataaa 720
ggagtaaata aagcctgtat acagtcaaaa 750

```

<210> 618

<211> 451

<212> DNA

<213> Homo sapiens

<400> 618

```

gcggccgcag tgaagaggagc aggcgcttga gctcgagcga cggcgctggc ggagacgccg 60
gctgtcctc ccctccccgc cggtagtgta gcgccccgc cccggacgct ggcggcggtc 120
gcggccccct cacggccctc cgcggtgggt ggggacagtc gtgagggagc gtggcctggc 180
ggcgcakcgg acgcgggcct ggccctccgc tcgcggcctg tcggggctgg gacctgccgt 240
cgcccccggt cgaggttgaa gccccgggcc taggactcga ccccagcat cccacggggc 300
ctctttcctt tcccggctca ttccgctgtc attttgacct ggggttcccc tccaagcccc 360
tcgccttcgt tcccttccca agcatcccag ggccgaggtt gagggagggg cgtgtgagaa 420
gtcgggccga ggmcgaggga ctgtttaagg a 451

```

<210> 619

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 619

```

aagagaaaga taccatttga gactccagaa tctgcctcta actctcaaca agactctgca 60
attactcaag tatcctttcc atcctcattg ccctgctgtt attacatagg ccctggttca 120
agtccttggt acttgttccc attattgcaa taacttctaa ttccaatgcc gttgtgtgat 180
cccattttta acacggccag agcagtcttc caacaacata gctctaactt agtttcatcc 240
ccacttttac atgcytcagt ggctttccca gtgacttggc atggaacacg tcctcagttg 300
ccatacattc cagctaactc ttacccaacc tttctttggt cacacagttt ccttttcctt 360
cctcattgac ccatccgcat ctctgtttat ccaagacttc tctgtgatag ctgaccctta 420
gtctttctct cccctattcc tccagactag atcctgtctc cttcctgcag ccccgacaca 480
gccttcagtt catatctttt gcatgatgct tagcaccttc tatccctaag gacaacttac 540
tcatttgaga tttctggcag ggtaccttgc atgcagtggg cactcagtat ttgctgaatt 600
aaattccttc ctatggatcc cttctgattt tttttaagtg cctctaatac acatatcatt 660

```

431

```

ctagggctca tgccactttt aatgtcattt tctaaaggaa aatcttatct atgatatttt 720
cccttataag agatagttgt tttgagtagg gttttttaaa agataaagggt agtaggaaat 780
tttttaaagc ctaaatatca aattcctttc cctttggagt tgggggaagk aatgaagggg 840
gagcaacttg ctctttcata tgagttgggc atagcatgta agaaccaatc ttgaaatata 900
gttttttttt taatggctta taatgtattt ctagaaatac tttgtactta aaatgataac 960
agtttgtatc tttttgtcca tataaagata ctttataaat aaaaaaatta gcattgtaaa 1020
taatgttaat atgtatttat acaaaataaa tttactataa tataaaaaaa aaaaaaaaaa 1080

```

<210> 620

<211> 823

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (717)

<223> n equals a,t,g, or c

<400> 620

```

ggagggtttcc tttgtccatt aagcaagccc caagaaccag aacccttttg ctgcttttct 60
tacataccta acagctctcc agtcatgatg accaagggtg ttcttcaatc aaatgtgttt 120
gwgggatttt cagtccgcaa atgaagtgct ctctaataa tgggacacca tgataaatat 180
gtattttatat ttagatgcca aagtatggcm aattatttcc aaatgataac taaaaatggg 240
aattttcgat attctacctt ttttatagaa ccagctcact tttcatttct ttttcatttt 300
gaattaagaa aattgktgag gatgtgggtg gttccagtgt gtggaatgga aaggaaactg 360
cagaatagtg tctgctcccc attcagaggg actgcttctt gtgcccccca gaccgggggc 420
ttcgacagct tctccacatt ccacacagat gcctaggagc agcgagttgg tatatgaaaa 480
gtctccacc ttttctccta aaacttctct ctttctctc cataaaaaga aaaggaaagg 540
aacaaaagaa aaacattcag tttttctttt tctgaaaaag gtaagtcctt tctgaagtc 600
atcaaatgaa acattatctg gaaattagtt tctaagtgtg tatatnaaga aatacttaaa 660
tataagttcc tgcagtattt attagatagt tgtaactgna aactcacctc ctagtanata 720
agagtttcag gttaaatact ggaacatata taggcagtca aaaatactac tttaaatgca 780
ttcacctaata ttaaagccat ggtttaacac tttttaaggc caa 823

```

<210> 621

<211> 720

<212> DNA

<213> Homo sapiens

<400> 621

```

gctctaattgg aggaaacagt caacatgcaa aaatagatgt gtaatgtaag aagagtgatg 60

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432

```

gaaactctag gaaacaatca aaaggaaatg ctagaaataa taaaaatcac tgacataaat 120
aaagaatgtc ttcaataggt tcatcaacag aacaagtttg aggaaagaat gagtaagctt 180
gaagataagt caacagaaat aatttcgaaa gtataatata catctatttg gaataccaga 240
aggagaagaa caagaacaag aaactaaaga aatatttgaa gtaacactgt cagaggattt 300
tcccaaatta accacagcaa mtcacaagtc aagaagtaga gaacagtaaa caggagaaat 360
acaaaaacaa ttatacacia acttcagaaa accaaagaca aaaagaaaaat cttcaaagga 420
gtcagagaaaa aagtaacctg acttacagca aaacaggaca agaattaaat tagacttccc 480
atcagaaaca cagaagcaag aagactggag tgaagtattt aaatgctaaa ataaagaaaa 540
aaaatacaaaa cttgagaaat aaagacttcc tcagacaaat gctgagggaa ataataacca 600
tcagaccttc cctgtaagaa aatattaaaa gaagttctca cggaaaagga aggtgataaa 660
gttcagaaac tcaaactctgc gtaacaaagg aagagtgcga aagaaggaat aaataaaggt 720

```

<210> 622

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 622

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gccaccagta cctagccaaa gttagtttta atgtgagagt caaggactac agtggcatgc 60
tgaggtaaca actgcaggag catcgaggta acagcaaaaa tcttttactc caattgggtc 120
aatccagtta accatgtaag aaactcctca cctaggggtca gtatgttact tctgtatttc 180
tgcaagcaca atccactgac ataaaagtct aataattaga ctttattgta agtctaattgt 240
atcttgtaca tgataaaatg tatgaacttt ggatcaatat ggcaagctga agacacctgt 300
catgtggggg gactattttg tttgggttct an 332

```

<210> 623

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<220>

433

<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c

<400> 623
taaggctgtt tcagagtctg agttgacttc tctttaatct acctatagaa ctttttaggtt 60
tcaaaaaata cttttnaaat gacttttttg gtttggaag tacctttaat acatttaagc 120
tagttttcct cctggaaata tttagaattt ctcccttaat tggcaacctt tatagaagtc 180
tggttaagatt tgtcgcaaag atgtgccaca gatggacaca aatttcccat tcgggagcaa 240
tatcttacca cagtgggtggc taaatgctag ggacaaaata caaggccgga actttccttc 300
cctcagatac cttgtgctgt ggtgttttgt tgccactttc tccctctcat tttcaattat 360
atgcacaatc ttccctttct agagtatgac tttggccaga tgactcacct gatgccacct 420
aagggcattg cctggccagg tacattttctc tggctccagc cttggctaag ntgatgacct 480
gagtcgatct ncacattcat ntcntgaacg 510

<210> 624
<211> 653
<212> DNA
<213> Homo sapiens

<400> 624
gtttttttat ggaaagaaca taaacatagt tttctaattt ggagaaatcg gtcttaatgc 60
aagtaggcat tttaaaatta catttatgaa ttatttttag accctacata atctttttta 120
ttctgcaatg ttaaacagtt tctctagaaa atctgttttt gtttcctagt gactattaaa 180
ctattctctc ctacaacagt aatattttatg ctataaattt aaatcatcat ttttgttttg 240
attgattata agatatatgt tttattatca tgtagcctag ttaagagtc ctcaatatwt 300
ctgaagtttt agtgattctg ctgagagaga gcatagaaaa aaataagaaa aaaaaacca 360
acctagtatc tgttgktcag tagattgtag gtacttctgt ttatagaaat aataagggga 420
aaatgggtat tttagaatga ggatcttttg tgktgkacct cttgcttctc ttttatttga 480
ataataaagg raataacatc aaattaatgt ttarcctact ttartatgga tattgaagtt 540
aaaatgtcat tcattttgcat ttattttagga aaagaagata tgcttcttaa acaaggtcag 600
atgtatatgg cagactcaca gtgtacttcc ccagggtatc caggcccaat gca 653

<210> 625
<211> 421
<212> DNA
<213> Homo sapiens

<400> 625
gagacagagc aagatgcctt caggaggaat ctctggccgt cttcttttgt aatatccaaa 60
gagcttttgt cagcgttgat atcaaagcgg tgtgaagaaa acataaggcc ataagactaa 120
tctctggaga gctgcacact gaaggggaac mtaagttctt gagtccctgg agtaccctaa 180
gtktggttcc agagaggggtg ccattcatga gcaacactgc tagccattag tggccagcaa 240
gaaggggagt gaaaggagta tcttgtatag ggtgacttgg gtaatatgaa attgctgtca 300
tcaaggttta tcaaaamacc aaaggttaaa tattacatgt aggcaatgtg aggctgcccc 360
aatgggtgtg tttcccagga acttgattca actctgagaa taaatgcatg agtactgaga 420

434

a

421

<210> 626
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 626
 tcgaaccttt tggatctctg tcagaaatga atgtttatct ctttcaagtt ttatcaagta 60
 ttaatacgtt ttatttatat tcttttaaat gttttattca gtagttctgt gaacttcaga 120
 ctttggtgtt cagcctaata gtatgcttct gtaacttcta cacattttat aagaactcat 180
 tcaaagttgt agtcttacca tagtgtttca ggggttcctg ttgtgtacac ttttactata 240
 atggcaaaat gtttcaaaat cattcagctt tttaaagaaa cttattatgc aaaagacact 300
 cttgaaatgc tgtgcatttg agctgaagtg aaagaatttg tttcatgttg tactttgcat 360
 tattttaagt tttcacatct ttaatatgct tttctatgct aattatatta gaaatctata 420
 aatataagtg gtttctttgt ttaaactagt cattaataat taggttgaaa atgaaaaaaa 480
 aaaaaaaaaa aaaaaaaaaa 500

<210> 627
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 627
 gttggtacgc ctgcaggtac cgggtccgga ttcccgggtc gacccacgcg tccgctctgt 60
 tcctctgtgg ctactctccc atcttaaaaa cgatccaagt ggtccttttc ctccctccctg 120
 cccctacccc cacacatctc gttttccagt gcgacagcaa gttcagcgct tccaggactt 180
 ggctctgctc tcactccttg aacccttaaa agaaaaagct gggtttgagc tatttgctt 240
 tgagtcattg agacacaaaa ggtatttagg gtacagatct agaagaagag agagaacacc 300
 tagatccaac tgaccaggga gatctygggc tggcctctag tctyctccc tcaatcttaa 360
 agctacagtg atgtggcaag tggatttag ctggtgtggt tttctgctc tttctggtca 420
 tggtgattct gttctttcga tactccagcc cccagggag tgagtttctc tgtctgtgct 480
 gggtttgata tctatgttca aatcttatta aattgccttc aaaaaaaaaa aaaaaagggc 540
 ggccg 545

<210> 628
 <211> 679
 <212> DNA
 <213> Homo sapiens

<400> 628
 ccccggtttt aaaagatcag tagtctctat tcaaactttt aaaatgtcgt ggtattgtaa 60
 caatatattt gatgaaagaa ggttacagac tcccctgaag aaccagcttt cctacgcttt 120
 ttatttttct aacttgctta acctgatttt aaaatgactg caattccaga ctaaaaacat 180
 gcttcagccc tgtttcaaga cattatgctt cttttaacag tccaaattag tagttttatt 240
 tttcttctaa atctttgttt cacacttgta aaatcttggg aaggagggtc ttaaaacttt 300
 gccaggaatt gttaccatt tccaaaaaca gtttattatg ttcaaaaacc accatatctt 360
 tgaggggactg tttgaaaggg gagagggcaa cgcgggaaat aattcactct gcgcaccgga 420
 actattgtag ttcaggactt ccagctactg tatttagatg ttgggtttga atatacagat 480
 ttcttttcaa tacctgtaaa tatggctata ttcttgatt tgtacgggag tgtacaaaat 540
 gacactgaaa agtaataaat atgttttgac tatattgtgc agttatttca gaactgtgtt 600

435

ttgaaagtct tagaatgcat aatttgcatt tgagtaagga aattttaaata acagattact 660
 gctgagattt taaaaaaaaa 679

<210> 629
 <211> 905
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (165)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (793)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (803)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (816)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (843)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (869)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (889)
 <223> n equals a,t,g, or c

<400> 629
 cagtcgcaag tgactcttgc aataatagca tctcactcct atctgaaaag ttgacaagca 60
 gctgttcccc ccatcatatc aagagaagtg tagtggaagc tatgcaacgc caagctcgga 120
 aaatgtgcaa ttacgacaaa atcttggcac caagaaaaac ctagnccatg tcaataaaat 180
 cttaaaagcc aaaaaacttc aaaggcaggc caggacaggg aataactttg tgaaacgtag 240
 gccagggtga cctcggaat gtcccccttca ggctgtcgta tcaatgcaag cattccaggc 300
 tgctcagttt gtcaaccag aattgaacag agacgaggaa ggagcagcac tgcacctcag 360
 tcttgacaca gttacagatg taattgaggc tgttgttcag agtgtaaata tgaaccaga 420

436

```

acataaaaaag ggggttgaaga gaaaagggttg gctattggaa gaacagacca gaaaaaagca 480
gaagccatta ccagaggaag aagagcaaga gaataataaa agctttaatg aagcaccagt 540
tgagattccc agtccttctg aaaccccagc taaaccttct gaacctgaaa gtaccttgca 600
gcctgtgctt tctctcatcc caagggaaaa gaagcccca cgtcccca aagaagaagta 660
tcagaaagca gggctgtatt ctgacgttta caaaactaca gagtaagtag tagtacctat 720
tagctaacat ccttttttct tccacatttg gaaaaatact ttgactatca aaaaacaata 780
tagattcttt tngtcttcat aanccgtgat gattngttt ttgcactcat ggattgaagt 840
acnccttcct taaacttttg ggtcaaggnc aattacatta cccctttnt gatgtggggg 900
ggaaa 905

```

<210> 630

<211> 800

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (776)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<400> 630

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gcagcctgga cgggccgcag agacgttctt gtcttaggcg tcccacgaga tgcctctgtt 60
cagccctgcc gaggtggaag cttggagtgg ctcacggtgg atgcattgac gctgcagacg 120
ccagcaagtg ctacaaacca gagctggcct ttaactcaga ctgatggaga aggtgttaat 180
aatgcagatt agacttaaaa gtgttgaagc cattgcactg tgaacagcaa aaaaattgaa 240
gaactcttct ggcatttaaa aacaattact cagttcagca gagaagtcac tgacaaacga 300
gatcacactg actgctttgt cgttttggtt ttgtcttact catlaatgca aataagaaca 360
ttcactagca tctgtgtcgg gcctaccctc cctgggtcaaa tacagctaca gtctccctgc 420
agatacgagt tttccagaaa tgagccgatg ttttctgcga gaatcaattg gtcataataca 480
atttacaaaa atgagtactg tatactatat ttgtaaactg tacactgcag atgctttatt 540
tactgaaat ttataataca cttatccatg tatatgcatg catgcatttt tgttcttgag 600
atccagctgt gaaatgttta ccagcacata aattaccagc acatgctctt ttttggttaac 660
ctactaggta aaatcttcat ttattacatc aaaaaaaaaa aaaaaagggc gggccgcttt 720
agaggatcca ancttacgta cgcgtgcatg cgacggtcat agcttcttct antagngtca 780
cctaaattca atttcacngg 800

```

437

<210> 631
<211> 378
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<400> 631
actaacgggg ctncacnatg gaagctcatt ataggggaatn ctggtacgcc tgcaggtacc 60
gggtccggaat tcccggggtcg acccacgcgt ccgcggggagc cctttgctgt gtgctctgtc 120
cagtgtcatg agacggggagc cctttgctgt gtgctctgtc cagtgtcatg agacggggagc 180
cctttgctgt gtgctctgtc cagtgtcatg agacggggagc cctttgctgt gtgctctgtc 240
cagtgtcatg aggcaggtgt ttgcaaagcc agctctcggt tccgatgggg tattgctgac 300
ctacttttct aggggaaatg ctcttaaaca ctgtaattat gcatttctaa tgaaataaaa 360
tgtatttawr accacaaa 378

<210> 632
<211> 602
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (529)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (540)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (548)
<223> n equals a,t,g, or c

<220>
<221> misc feature

438

<222> (583)

<223> n equals a,t,g, or c

<400> 632

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gcccgcceca gtttgaggac ttgctatccc cgtgggaaca tcaccatgtc cgaggcaccc 60
cgggcccagaga cctttgtctt cctggacctg gaagccactg ggctccccag tgtggagccc 120
gagattgccg agctgtccct ctttgctgtc caccgctcct ccctggagaa cccggagcac 180
gacgagtctg gtgccctakt attgccccgg gtccctggaca agctcacgct gtgcatgtgc 240
ccggagcgcc ccttccactgc caaggccagc gagatcacgc gcctgagcag tgagggcctg 300
gcgcgatgcc ggaaggctgg ctttgatggc gccgwggtgc ggacgctgca ggccttcctg 360
agccgccagg cagggcccat ctgccttggtg gccacaaatg gctttgatta tgatttcccc 420
ctgctgtgtg ccgagctgcg gmgcctgggt gccgcctgc cccgggacac tgtctgcctg 480
gacacgctgc cggccctgcg gggcctggac cgcgcccaca agccacggna cccgggccc 540
gggcccgnca gggttacaag cctcggaag ctttttccac cgntactttc gggcaagacc 600
aa 602

```

<210> 633

<211> 669

<212> DNA

<213> Homo sapiens

<400> 633

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gacaggatac gtccctgtaa cccaatctct cggttgattg atagcagaac agctcttggt 60
ggctctgagaa ggcaggataa gtgaccacat atttatgcca ctacctccac caggagagat 120
ccttctccac aggccttgata aattcaatca ccaactgtgc tgcgtccct gactctgcta 180
ctcccgttct tcctgctttc ctgctccgta tctcagtctg cactgacccc agggctgggc 240
tgacatcaag atgggagccc agcccacggg ctttataaac acccaagaac cgtttcagat 300
cttctctgtg ctgatgcagg tagttttaaa ttttctcag ttccagtgat agaaaaccca 360
cacaatacat cctctgccag tcttaataga atatcagagg taagaggggc ctgagagaag 420
ctctgacgca gtgctgctgg ggaagggaag tgactaaccc cgggtcagcc tgccatttag 480
ggaaagagct gaggttctta cccttggtgc atgctgccac ctctccttag ccagtgtct 540
tgtacatcca cacagcacc taaggagcca tagtcacat caaagactca accctaaggc 600
ccttcaagat ctcaaagtgc cttctgaagc atcagagatt aaatattgtt caaactaaaa 660
aagtcgacc 669

```

<210> 634

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<400> 634

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gcaattttta actaggttat cctgtgaatt aaacatttta atttattttt tatcatgtat 60
gatttattta tagatgcata catatgcagt aaaagcagta aaggaagcat gagaaagata 120
aacacaaatt gatggtggca gtgacctctg gggaaagaat tataggataa aaacaaaaaac 180
atatatactt taaaaagtat acttcgtgkt atgaaatatt ctcatgtgaa tgcattgtta 240
aatggratwa aagtagaata agttataata ctgggtactt agaaaccaga tattaaactt 300

```

439

acctttatta tagtggtacc tgggtgccsn tagaattaca gtactwaaag gtacaaatta 360
tactaaaaat gatattggaa gatttgcaca tgggtgggtt ttaag 405

<210> 635
<211> 1329
<212> DNA
<213> Homo sapiens

<400> 635
agagagaaaa gcacctttga atgcagtgaa tgtggaaagg ctttcagtta tctctcaaac 60
cttaatcagc atcagaaaaac tcataactcaa gagaaagctt atgaatgtaa agaattgtggg 120
aaagctttta ttcggagttc atctcttgct aagcatgaaa gaattcatac tggagagaaa 180
ccctatcagt gtcmkgaatg tgggaaaacc ttcagttatg gttcatccct tattcagcat 240
aggaagatcc atactggaga acgaccttac aagtgtaatg agtgtgggag agcattcaac 300
cagaacatac accttacaca gcataagaga attcatacag gagccaagcc ttatgagtgt 360
gctgagtgtg gtaaagcctt tcgacattgt tcatctcttg ctcaacatca aaaaactcac 420
acagaagaaa aaccctacca gtgtaataaa tgtgaaaaga cctttagcca gagctcccat 480
ctaactcagc atcaacgaat tcacactggg gagaagccct ataagtgcaa tgaatgtgac 540
aaagccttta gccggagcac tcacttgact gaacatcaga atactcatac tggagagaaa 600
ccttataact gtaatgaatg cagaaagact tttagccaga gcacatatct cattcagcac 660
cagagaattc attcaggaga gaagcctttt ggatgtaatg attgtggaaa atccttcaga 720
tatcgctctg ctctcaacaa acatcagaga ctgcatcctg gcatatgaca attctaggaa 780
catcataaat ttaggggaga tattttacttt agtttgcctt tttgttaagt actgaagaat 840
cagagtggat ttagaaactg ccttgaaatc ttttaaat tcaactatcat gttatggaat 900
ggaaagtaca ttgggctgaa ctaatccaat tgttattaag ccactctgtg acattagaaa 960
actctactgt ttttaagcttt agtttccttt atggaatgaa ggmmttgag tagattattt 1020
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tgccaataga atttgtgctt cagtaactag atcggggatc tagtatgctc ctgggtctaatt 1200
gcattttacat tgttttaggta actggttcct aataaaaaga attataaaat accctcaaatt 1260
taacaattca attgcatata atagcctaac tcagtaagaa tattaataact tactattatt 1320
aaaaaaaaa 1329

<210> 636
<211> 440
<212> DNA
<213> Homo sapiens

<400> 636
gctgctggaa gcccaggcgg gggaaggggg ccgtgtgtcg cgsagagcgc ccttgagcct 60
tacgcagagg tcttgtgtgt tcctagttaa gccctcccac gcccgaggcc ccctcgcttc 120
ctctccaccc tctttaccca ccaatattcc aagcccagat cctaattccc caccgcatta 180
ccccgcctcg gatttgggga atgtttttct ttattttaat atagctcaag gaaaaaatac 240
gtatatcttg agagattttg ggtggggaaa acaaaagcct tgccggagtar aaaaaacaaa 300
ggcttatttt tataaatgtt taatgttttc acccctgga tgctccgara cgccgtaatt 360
gtgacggcgg ggtacgtgtg ccataaatca tttagtgtct aataaaaatt ctgcctgttt 420
gccctggaaa aaaaaaaaaa 440

<210> 637
<211> 1216
<212> DNA

440

<213> Homo sapiens
 <220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1078)
 <223> n equals a,t,g, or c

<400> 637
 aagnggggaa acgcttcagg ctgatgtggt gatttacggt attggtatca gcgccaacga 60
 gcaactggct cgcgaggcca accttgatac tgccaatggc attgtcattg atgaggcttg 120
 ccgcacctgc gatcccgcg tctttgccgg tggcgatgtg gcaatcactc gtcttgataa 180
 tgggtgcacta caccgctgcg aaagctggga aaacgccaat aaccaggcgc aaattgccgc 240
 tgccgcaatg ttagggctac cgctaccgct actgccgccg ccgtgggttct ggagcgatca 300
 gtacagtgat aacttacagt ttattggcga tatgcgtggc gatgactggc tttgtcgtgg 360
 caaccgcgaa actcagaagg cgatttggtt taatctgcaa aacggcgtgc ttatcgggtgc 420
 ggtcacgctg aatcaggggc gtgagattcg cccaattcgc aaatggatcc agagcggcaa 480
 aacgtttgat gcgaaactgc tgatagatga gaacatcgcg cttaaatacac tgtaaccagg 540
 ataattagcg aatatctcaa tgcctggggc gtggcgagggt gcaagagtgt gtattacggt 600
 taaatcacat tatcttgcaa agggawtggg ctgctcgcca tatcgtcaat cgtatcaatg 660
 cgttcaaacc gactgccgat cgctcggttg tactgggcct gccgactggc ggacgcgcca 720
 tgaccaccta taaagcgcta gtcgaaatgc ataaagcagg ccaggtcagc ttaagcacg 780
 ttgtcacctt caacatggac gaatatgtcg gtctgccgaa agagcatccg gaaagctact 840
 acagctttat gcaccgtaat ttcttcgac acgttgatat tccagcagaa aacatcaacc 900
 ttctcaacgg caacgccccg gatatcgacg ccgagtgcgc ccagtatgaa raaaaaatcc 960
 gttcttacgg aaaaattcat ctgtttatgg gcggtgtakg taacgacggc catattgcat 1020
 ttaacgaacc ggcgtcttct ctggcttctc gtactcgtat caaaaccctg actcatgnac 1080
 actcgcgtcg caaactctcg tttctttgat aacgatgtta atcagggtgcc aaaatatgcc 1140
 ctgactgtcg gtgttggtac actgctggat gccgaagaag tgatgattct ggtgctgggt 1200
 agccagaaaag cactgg 1216

<210> 638
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 638
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 aggaggatgt gaaaggggaag aaacggcaac atttgactcg ctgtacaggc tgagaaatat 120
 cctattttgaa agaaatagaa gagtgatgga tgtcatttct cgttcacagc tttacttgga 180
 tgatcttttt tctgactact atgacaaacc tctcagcatg actgatattt cactcaaaga 240
 agggacccat atccgagtta acttacttaa tcacaacatt cccaaagggc cttgcatact 300
 ctgtggaatg gggaaacttca aaaggagagc agtttatggg tgctttcagt gttctgttga 360
 tggtcagaag tatgtgagac ttcatgcagt tccttgtttt gatatttggtg acaagaggat 420
 gaaataaaat gaaaaatgaa tacaccgtgt tgggtgtttta ggtgcagttg tgccacaaac 480
 cttccctaaa ttatctaggt ttgmwwtgat smmttaaatt aaaatgagaa aagcaaaaag 540
 aaaaaaaaaa aaaaaaaa 557

441

<210> 639
<211> 1269
<212> DNA
<213> Homo sapiens

<400> 639
aattcggcac gagtttgtat tttgagtaga gacagggttt caccgtgttg gctaggatgg 60
tgtctatctc ttgaccttgt gatccacccg cctcagcctc ccagagtgtt gggattacag 120
gtgcgagcca ctgcgcctgg ctggttttca tgaatcttga tagacatcta taacgttatt 180
attttcagtg gtgtgcagca tttttgcttc atgagtatga cctaggtata gagatctgat 240
aacttgaatt cagaatatta agaaaaatgaa gtaactgatt ttctaaaaaa aaaaaaaaaa 300
aaaattttcta cattataact cacagcattg ttccattgca ggttttgcaa tgtttggggg 360
taaagacagt agaaatatta ttcagtaaac aataatgtgt gaacttttaa gatggataat 420
agggcatgga ctgagtgtct ctatcttgaa atgtgcacag gtacacttac cttttttttt 480
ttttttttta agtttttccc attcaggaaa acaacattgt gatctgtact acaggaacca 540
aatgtcatgc gtcatacatg tgggtataaa gtacataaaa tataatctaac tattcataat 600
gtgggggtgg taatactgtc tgtgaaataa tgtaagaagc ttttcaacta aaaaaaatgc 660
attactttca cttaacacta gacaccaggt cgaaaatttt caagggtata gtacttattt 720
caacaattct tagagatgct agctagtgtt gaagctaaaa atagctttat ttatgctgaa 780
ttgtgatttt tttatgccaa awttttttta gttctaataa ttgatgatag cttggaaata 840
aataattatg ccatggcatt tgacagttca ttattcctat aagaattaaa ttgagtttag 900
agagaatggg ggtgttgagc tgattattaa cagttactga aatcaaatat ttatttggtt 960
cattattcca tttgtatttt aggtttcctt ttacattctt tttatatgca ttctgacatt 1020
acatattttt taagactatg gaaataattt aaagatttaa gctctggtgg atgattatct 1080
gctaagtaag tctgaaaatg taatattttg ataatactgt aatataacctg tcacacaaat 1140
gctttttctaa tgttttaacc ttgagtattg cagttgtctgc tttgtacaga gggtactgca 1200
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aaaaaaaaa 1269

<210> 640
<211> 691
<212> DNA
<213> Homo sapiens

<400> 640
gggaatattg taatacagtc cagctagatt ctgggataga ttaccggaaa agggaaacttc 60
ctgctgcagg aaaactctac tacctcacia gtgaagctga tgtggaggct gtcattggata 120
agttgtttga tgagctggct cagaaacaaa atgatttaac tagaccaagg attctaaaag 180
tgcaaggcag agagctgcgc ctgaataaag cctgtggaac cgttgccgac tgcacatttg 240
aagagctgtg tgagagacca cttggagcca gtgactattt ggaactayca aagaattttg 300
atacaatatt tttacgaamc attccgcaat ttactctggc aaacaggact caaggtcgaa 360
gattcataac tctcatcgat aacttttatg atctcaaggt gcgtataatt tgctctgcgt 420
cgactcctat atcaagctta tttttgcatc aacatcatga cagtgaagtg gagcaaaagca 480
gaatactgat ggatgawttg gggctkarcc aggattcagc agaaggactc tccatgttta 540
ccggagaaga ggaaatcttt gcatttcagc gcacaatttc ccgactcacg gaaatgcaga 600
ctgaacagta ctggaatgaa ggagacagaa ccaagaagta actgccactt ttgcataaat 660
aaaactctag acaaatggtt aaaaaaaaaa a 691

<210> 641
<211> 604

442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<400> 641

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cgcgtcgact tttttttttt caatttcaag gattacgaaa ttcttctgtc ttagttacaa 60
acaaaatgca gctatgaagc actgggaagt aaatgcaaaa tatagaaaga atcttcatga 120
ttctcccaaa ctgtaagcac agctcacaaa gtctcattgc tttagaatgt tttctggatg 180
aacaagttac cagctgcaaa ccgacttcag aagtgaggaa aatgttttct catgtttcat 240
gtagctgtca aattttcaaa aatcctccat ccttcaatca ccagtgggg aaaatgtgtt 300
ataaaacact gccccctgga gtattctggg aggaatgtct taaaaaaaaa aaaaaaacag 360
carggagaaa gtactttcaa attctttact aaccactaac agaatttcta agaagcaaaa 420
gaaaaccaca gaaaggaaat gtacatgaat aaagttgagc aggatgtgta caactttaaa 480
ctgtattgta ttcattgtgc taaacaatat tggccttctc gatgattnta ttcattgtgc 540
tccaaagtta accctgtaga actaagtagg tgaagagata ttttgtataa gtgccacaga 600
agag 604
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<210> 642

<211> 961

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (923)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (947)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (953)

<223> n equals a,t,g, or c

443

<220>
 <221> misc feature
 <222> (954)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (960)
 <223> n equals a,t,g, or c

<400> 642
 tagatagaac agatgttttg tgtgaaattt nntatcttta acttaatawaa ccagcaggaa 60
 ctgtatgaac acaacacacc caactgacaa acagagagaa ctaacatgtt tatttagctg 120
 tatgtatata tgcttaacta cacccgagga agctgtagag ttagaaaaac atgaaccatt 180
 aacagatgtg gcctccctgc agaactttta ctttgaaaaa gaagtacgtc tgaaccagat 240
 tcacatgttt gatatttgga tgcagagaaa atggggcgaga aagcatcgca acagttggct 300
 ctgaaggaca gcaaagaggt gcccgtcgtc tgtgaggtgg tcagtgaagc tatagtccat 360
 gcagctcaga aactgaagga gtaccttgga tttgaatatc ctccaagtaa actctgcccc 420
 gctgcaaata ctctgaatga gatcttctta atccatttca tcactttctg ccaagaaaag 480
 ggagttgatg agtggctgac caccaccaag atgaccaagc accaagcctt cctgtttggt 540
 gcagactgga tttggacctt ttggggatcy gacaagcaaa taaagcttca gctcgcagta 600
 cagactctgc agatgtcttc acctcctcct gtggaatcta agccttgtga cctttccaat 660
 ccagaatcaa rggtaragga rtcttcctgg aagaaaagta gatttgataa gctggaagaa 720
 ttctgtaact taataggaga ggattgcctg ggtctgttta tcacttttgg tatgccagga 780
 aagcctaaag acatcagggg agttgtcctg gacagtgtca aaagtcagat ggtgaggagc 840
 catctgccag gaggggaaggc tgtggctcas tttgtcctgg aaactgaaga ttgtgtgttc 900
 atcaaagagc tgctcaaaat tgnctgagta agaaagacgg gctgganaga agnnggcaan 960
 g 961

<210> 643
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 643
 acatggaagc ttttttacca aataactgtg ttgcatcadc ctccagtttg cctgggtgtcc 60
 ttaatcaatg gaaggggaat aagcaaactg agttttctta caccttttga gtatagtgtt 120
 tttgccatca tagatgtggc tcttcataat tctccaactt ttatattaaa aaacaaaaac 180
 ctcaaaaatt gtagttcatg tcagtcagtg atgactcadc ttagaaktat tttgtttttg 240
 gatgtgtgaa tgtgcatagt tcttaaagtc caacattcat gtaataagac atcttgcata 300
 taacaatgac ccttacgtct aagatgttaa atagatccta agcctgggtat aactttattc 360
 aagtatcctt atttgccctt aaaatgtctt taatacacat tacttgggtt atytcttgaa 420
 tgaac 425

<210> 644
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 644
 ggtttcaatg ttttgtctgt gtctctctga ttattttgct tggtgattgg ccagttgtta 60

444

```

attctgtctt tgtgagttgt ctttttctca gtacttggcc tatttgtctt tgatttgaaa 120
aagctcttta tgttgtagtc attttaattc ctgtcatatg ttttgtaaac aatttttcga 180
gttcataatt tttcaatctt gtttgtatta tattttgcca cacaaaaatt ttaaatttgt 240
atagtcaaat ttatcagtct ttttccttat gttggacctt ctaatctcaa ggtactaaat 300
ataatctagc atttttttaa acattaaaaa tttttaatcc atctataatt tatttttagga 360
tagggagtga ggcaggggaa ggtatctttt taaataaaaa tcgttgctaa aaaaaaaaaa 419

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<210> 645

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 645

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acagcctaac tttncagcta gacagaatgg ccattaagaa tatttccaaa atccaagttt 60
atcaaaaatta ttttgtggga aatcatcaat ctattttatt aatggtatgt gtttaatttt 120
ggacttattt tgggaaaaaac tgttcaaaatt gggtcctttt aagcttattt taagcagcct 180
agaaggaaga agctacttag ctaatgaaag ctgagacact ttaataaaaag caggatctta 240
agagcattgt ttttccttaa aaactttata ctctcagata atctgcaaca acaaaaatta 300
agaaatccct gacttttcta gaattcccac tgtcaaattc tcactgactt atgagtgtga 360
gagaagttat cttttgtttg aattctgata gaacagttta actcctttct aaggatataa 420
aaaattcatt ggaaagtgtg tatatttcaa agactctcaa ttatctggac tgaaggcact 480
gttctcacta tggccagatg aatggggagta ttctgtacat gaatcatgct gtatttttaa 540
tcaggacatc acttaagtat taatgttgtg tgtacagatt tttgttttgg gatttttttt 600
gcctaaataa atgttataaa ttttatgtaa aaaaaaaaaa aaaaaaaaaa aaaaaa 655

```

<210> 646

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 646

445

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gccctctctt ccaatatcca tgtctcatatc actatggctt actgttgaaa tccaactggg 60
aagaagataa ttcttttgagc aagcaatggg agattcaggc tcctacagaa acagcattga 120
tcatactgtg gttcttcgag agaagctgcc catccgcagt aatatcttcc ctctgatgct 180
ggaaactgtc gacggccatc cacttattaa tggacccata actaaggaaa catcacctgt 240
ccaagttcaa attggaaacc atggttgaaga gctccagttt gacattattc atgcaccacg 300
ataccctctg attattggaa tccattgggt tgagacacat gaccaaacat araatggart 360
acccgcactg ngtcctttct atcacgttat ttgtcactac aattgcttca ggcacagggt 420
ggaatannaa gaaatccgtg atgaaataat tttctggg 458

```

<210> 647

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<400> 647

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aaggctgaca caggagcaat caagaaccca ggagacgggtg gttgcagtga gctgagatcg 60
cgccattgcc ctccagcctg ggcaacaagg gtgaaactct gtctcaaaaa acaaacaaac 120
aaatgcattt aactattcct gtgtaacaaa ttntaaaggg angctgtaaa gttaaagggtt 180
ttcttatcca aacagattgc tcttcttgaa aacagcagcc tgyggttatg tcaganatgc 240
aaacactgct gaaggctaca gagagaagct ggtaactggc tgccg 285

```

<210> 648

<211> 1872

<212> DNA

<213> Homo sapiens

<400> 648

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aattccgatt ttatgccagt tgcaccagca tgcagaatat ttgtaatgca tttcaaagtg 60
gatataatgg caccctttgt cagaatcaca aagctcactg cggcactgct acaagaggac 120
actgaggaaa atctggccct atgaacctag tcaaccccaa gcaaaaagaa tgactatgtg 180
tgtgagtgca gcatatggcc agttcgtttc tctctgtttt ggaaagccct gtgtgccaaa 240
ccaaggacgt gtctttcagg gaaagggtta ttttccgaag tttattaaaa tagaacttgg 300
aaaaccaagc attttgaatt tattccagtc ctctgggcat cattcctatt tcttctgcc 360
tgtcaaggag aaattccaag cctgcattct gtcattgctaa aataaccagc ccatacttct 420
cgggtgacct ctgttgaaag tacctgagcc tgcaaatgta aaaatgattg tatctgaatt 480
tgcactaatg gtgtctgaga gcaaaaagag tgtgacctct attggaaacc tttgttcaaa 540

```

446

```

ttcaataatt cagagatgct acatacttct gcaagcttcc tgattatggt cactgtaata 600
ttaatgacct aagtttgaat gtatttcctt acagtccatt aatttgacat ccatctttta 660
cctgggggatt attacaattg caataagtca ttaatgtttt cttcacacag cttcttaaac 720
caagttttctc tgcagctctt tcggttctgc ttacagtgtg tgggaaatct gatttttttc 780
ccctagtaat agtttgataa gaaatttagt gtattgactg cctcagtgc acaatttata 840
tttaaagggtg tggaagctgg tggggaccaa atgttacctg tgtttttgct gttgattgct 900
attttcagaa gcaaaccatg tttttcactt acagtaggag tcaacaaatt tgggatttta 960
gaaggggggag gagggagcta tttgtgtaag actgctgtca tatttgacta catattaaaa 1020
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cccgatgtgg aaactgatac tagctagagg gagctgtaga aaacaaagat ttcaggattg 1260
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gaagcacaca caatgactgg agctgtcggg aattcctgtc agtggcattc cctgagcact 1740
ggctctgtac aactcaatta taatttttta agaatacatc ctctgtatag atcttttggg 1800
ctgtactgat taaactttga tattgtggag taaattcaga agtgcaattt taaaaaaaaa 1860
aaaaaaaaaa aa 1872

```

<210> 649

<211> 840

<212> DNA

<213> Homo sapiens

<400> 649

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aattggaagg gaccttaaag ccctctaaga aagagttggt tagtagcagc tagaagccag 60
gtcttccaaa tcacagtcct aaatgatgaa tgttgaaatg tgcactatgt ttttgtttaa 120
atgagatttc ctgaaaatag ttaatttcag aattaaggga aattgatgtc gctatcatga 180
ggcatcataa aaatatgtat tttaacaagg gaaggcattt caagtagata tagttcttga 240
tgaagcagga agaacatgga tctgggattt ggaagacctg gcttctagct gctactaacc 300
aactctgtga ctctgggaaa gggggactca gttcttactt ctgtaacatg aggacaccgg 360
actatttgaa ttcagaactt agaaaattgg aaggggacct aaagccctct aagaaagagt 420
tcgggaatgt tctccattgc tgtcagtttt cctccaaaaa taacctggct tgggaagttat 480
tggtccagtg ggaatttgat tccccataga aactggagaa aaggtaatgc aagtagagag 540
gaacagctgt atttctgctt gagtaataaa cccactaaca gattctggta cgaattgtgg 600
agacataaag agaatgagtg tatgtactct aagtgtacca gtttcttcac tctctcctgg 660
cagaagatgc aacactttta gtgattctgg gattctggga tgtgttccta ttaattctaa 720
tacagatgaa gaagatgtgg tagaggaaaa gatggttagca gaaggagtga ataaagaggc 780
aaaacagccc gctaaaaaga aaagaaagaa gggtttgcga attaagggga aaaggcgtcg 840

```

<210> 650

<211> 823

<212> DNA

<213> Homo sapiens

<220>

447

<221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (192)
 <223> n equals a,t,g, or c

<400> 650
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 ccaacgatgg agggcctctg ggaatccatg tagtgccctt cagtgtctga ggcggcagaa 120
 ccctgggggtt attagtaaaa cgattggaga aaggtggtaa agctgaacat gaaaatcttt 180
 ttctgtgagaa tnattgcatt gtcaggatta atgatggcga ccttcgaaat agaagatttg 240
 aacaagcaca acatatgttt cgccaagcca tgcgtacacc catcatttgg ttccatgtgg 300
 ttctgtcagc aaataaagag cagtatgaac aactatccca aagtgagaag aacaattact 360
 attcaagccg ttttagccct gacagccagt atattgacaa caggagtgtg aacagtgcag 420
 ggcttcacac ggtgcagaga gcaccccgac tgaaccaccc gcctgagcag atagactctc 480
 actcaagact acctcatagc gcacaccctt cgggaaaacc accatccgct ccagcctcgg 540
 cacctcagaa tgtatttagt acgactgtaa gcagtgggta taacacccaaa aaaataggca 600
 agaggcttaa tatccagctt aagaaaggta cagaagggtt gggattcagc atcacttcca 660
 gagatgtaac aataggtggc tcagctccaa tctatgtgaa aaacattctc ccccgggggg 720
 cggccattca ggatggccga cttaaggcag gagacagact tatagaggta aatggagtag 780
 gtttagtgagg caaatcccaa gaggaagttg ttctgctgtt gag 823

<210> 651
 <211> 541
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (8)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (66)
 <223> n equals a,t,g, or c

<400> 651
 ggcacgnngg gaggcccagg gagaacgggg aagggacatt tagtttgaga cgggtgctgag 60
 ataggntcat gaaggaagag gtgaaggga ttcctgtaag agtggcgctg cgttgtcgcc 120
 ctctggtccc caaagagatt agcgagggt gccagatgtg cctttccttc gtgcccggag 180
 agcctcaggt ggtggttggt acagataaat ccttcaccta cgattttgta tttgatccct 240
 ctactgaaca ggaagaagtc ttcaatacag cagtagcgcc actcataaaa ggtgtattta 300

448

```

aaggatataa tgcaacgggc ctggcctatg ggcagactgg ctctggaaaa acctattcaa 360
tgggaggtgc atatactgca gagcaagaga atgaaccaac agttgggggtt attcctaggg 420
taatacaact gctcttcaaa gaaattgata aaaagagtga ctttgaattt actctgaaag 480
tgtcttactt agagattttac aatgaagaaa ttttggatct tctatgccca tctcgtgaga 540
a                                                                                   541

```

<210> 652

<211> 1655

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1521)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1648)

<223> n equals a,t,g, or c

<400> 652

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agtctggagc cggcgcgtag gagcgggcgg cggggctgtg cctctctcta ctccctcaccg 60
cgcgmgcggg gaaccagtar ccgcggctgc ttcggttgcc gcggtcgggtg gtcggttatgg 120
attctccatg ggacgagttg gctctggcct tctccgcac gtccatgttt cccttttttg 180
acatcgcgca ctatctagtg tcagtgatgg cggtgaaacg tcagccggga gcagctgcat 240
tggcatggaa gaatcctatt tcaagctggt ttactgctat gctccactgt tttggtggag 300
gaattttatc ctgtctactg cttgcagagc ctccattgaa gtttcttgca aaccacacta 360
acatattact ggcattcttca atctgggtata ttacattttt ttgcccgcac gacctagttt 420
cccagggtcta ttcatactta cctgttcaac tactggcttc gggaatgaag gaagtgaacca 480
gaacttgga aatagtaggt ggagtcacac atgctaatag ctattacaaa aatggctgga 540
tagtcatgat agctattgga tgggcccagag gtgcaggtgg taccattata acgaattttg 600
agaggttggt aaaaggagat tggaaaccag aaggatgatga atggctgaag atgtcatacc 660
ctgccaaggt aaccctgctg gggtcagtta tcttcacatt ccagsacacc cagsatctgg 720
caatatcaaa gcataatctt atgttccttt ataccatctt tattgtggcc acaaagataa 780
ccatgatgac tacacagact tctactatga catttgctcc ttttgaggat acattgagtt 840

```


449

```

ggatgctatt tggctggcag cagccgtttt catcatgtga gaagaaaagt gaagcaaagt 900
caccttccaa tggcgttggg tcattggcct caaagccggt agatgttgcc tcagataatg 960
ttaaaaagaa acatactaag aagaatgaat aaattttacgt gatgagctct acaaggccaa 1020
aaattttttt tcttatctac ctgttatatt gtgctaattt tctatgtatg tgatgtgaaa 1080
tgaagactat atatatggaa tggagggtgac agaaagaaaag aaattccttg tttgagggag 1140
acttccccct tctggattgt atttgtagag tgttacgagt gtatcatgtg attatgcttt 1200
accggtataa gagattctgt tgtgattatt tgaatagttt tatattaata aaagaagacm 1260
aaatttttta aatgttagaa aaagcagatc tgtcattgca aagtaacaaa aattttaagc 1320
ttttaaaaaa gtaagatttt tctgattttt aaaatttgaa tctattttga gcttttagntc 1380
agcagaatta aattttttact tgacattatc attaaaattg ctaggtatgg agaacaattc 1440
ctgnttttatt ttgaacactg agaaagaggt aaacttttcc taaaacactt tatattataa 1500
accgaaaaat aaattgctag nttatatatt aagatattaa catcataatt ttttaataata 1560
cctacatcaa atgggaaaaa atctgaaatt tttttttcat tagcanggat ttttctacta 1620
gaaagtagtt taactacttt cattttanaa ccaga 1655

```

<210> 653

<211> 1160

<212> DNA

<213> Homo sapiens

<400> 653

```

tggcgctagt ctgaccctcc gccaggcaaa aggaagattg tctttggcta tagagttttt 60
tttttaaaaga ttactaaaca tacaggaagt gataagaagt atcattcatc agaagcatca 120
ttcatcaatc aacttgaaga aaaagggtgat atattatttc ttttaagggtgc tgtgtgatgt 180
gttaagagca tattagaagg aatggttttg tctaattttc ttcattgagt atgggtggctg 240
agacatcgag tctatatattt ggggcaaaaa ctaaacggca gcacaaaagg aaatctatat 300
taatagaata ttttgttgaa caaaggaggt tagataagaa ctgcaaacca acagactcag 360
caaacaagga aagaaacgtg ttagccataa gacatgtttc aagtgaatcg aagtccaata 420
actgtagact tcagaagaaa aaagttttca aaaattttat caaaacaggt cactgataaa 480
taactcctcc agtaatagag ctaggcctga aaccaraatt aattaaaaaa ttaacaaaac 540
agattgaacc tgaattaaat ttcttttgat aaaaaaactt attaaaaata atcaaaaattt 600
tcttcaaat tttattacct tgtccaaaagt aaagcaagtg tcttttagca ttcattgccag 660
cttttctcat gktctaggaa tgacagaaac cttacttgaa gcaaactagt atttttgttg 720
aaaatgkata tcagcatcag ttaaagttga tttttcagac ctgctcctca gtaataatac 780
tagctagtca gcattcacgc ctaccaggac acaaaaatcc tcttcaaaac tactcagaaa 840
agaaagtcac tactcaggaa tgatgtccat tcaggagaaa tcaaaagaga attcctccaa 900
agttactaaa aaaagtgcag ataagaattc agaaacagaa attcaggatt ctcaaaagaa 960
tctagcaaaa aatcagggtcc aaagggagact ataaaatcac aggctaaatc ttccagtga 1020
agtaaaataa atcagccaga attggaaaca cgcattgagta caaggctatc aaaggcagca 1080
tctaatgata aagctactaa atccattaat aaaaatacgg tgactgtgag gggatattca 1140
caagaatcta caaaaaaaaaa 1160

```

<210> 654

<211> 836

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (538)

<223> n equals a,t,g, or c

450

<400> 654

```

gaaggcctga gagacggcag actgagcaga attccttttt tgagcacgag agcattacta 60
gaaccattgt caaagcagtg gcaagggacg gagagggtccc aacaggagtc aggaagaggt 120
ttgattataa ccaagaaaac tcactatgct aggaatagac tgtgtgcacc agtcccagac 180
acttggcaga agtgtagcag cgttacacat gtgtgcgaas agatcgaggg ttccacgcca 240
tctgcatggc ctgcaggagc ttctgctgct gaccccatgc tgagtggcca gtggggagcg 300
gcgcccgcca ggctcttctg gggctgctctg tcctatccgt ggattgtata tactcttctc 360
tgtaaggag tttttcccaa gaagaaaagt atttaaaaga aataccagtg agtgccttaa 420
agttggagaa gtaactgccc atgcccagaa ataaggatgc cagtgccagc aagcagtgag 480
attagtctgt gtccacaagc agaggccccc tcgatgggag ggagtggcag gcaggagnaa 540
gggtggcgctg ccagggtgccc gggctctattg gaggcgcccc atctcagact tcctaacaca 600
gcctgtgtgg aaggcagaaac aaagaatgca tgcccagtcg gaaatctgkt ctattctgct 660
ccaggaaaaat cggaaacctg tgagtcagag tcagagaaac ttaccaagc aacgtaattc 720
ctgttttcat gggctcctgta gatgtttgag tcaggaggta aggcggggag ttactaataa 780
actctgcctt ttaaattgag catcttgccc gggcatgggtg gctcacgcct gtaccc 836

```

<210> 655

<211> 1188

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1175)

<223> n equals a,t,g, or c

<400> 655

```

actatatctg gcctttataa acttttttga ttcttgtcat aacacttagc ctaaaatgca 60
aatgtacagc tgtagaaaaa tactttatatt ctttatatcc ttattctaga agcttttttt 120
ctattaattt ttgtttgttt gktttgtttt actatttact tctaaaactt ttttgtaaa 180
aaccatggca caaacacaca cattatgcta ggcatacaaa aggtcaggat catcagtctc 240
actgtcttcc acccccactt ctcateccac cattgtatct gctgtctgtg gctgaccaa 300
acatcatcat gtagcacatg actagtgtgg caagtgtctt gttagatgta aggccatgat 360
gctaaagcat cacaagaggg catctaacce agattgggga tgtcatggaa ggccgacatc 420
ctgagttgaa tcctgcaaat gtaaaaacca ataggcaaag aagaggaaca aaaaggattc 480
caggacaaac tgaggtcaca tctatgatcc ttgactttat tgtgtctgtt taaagtatct 540
acagtaacct gtatcaactt agtcagtgtg ttaatactaa atttagctcc ttcaaagcag 600
ttggaactat gtgctacata aatttcagct tcacacaagg aagggaagga gtgaaattag 660
tgaacaggca gttacagcaa aagaaaaaac ataaaaattg aatagctggc tctggtgaaa 720
tgagcaagga ctttagagtc aaactggcct ggatttgaat cctgatcctc attgcttgta 780

```

451

```

gctgtatgat ctggacaaat gacagtaact gtttctaacc ttgattttct catctgtaag 840
atgccaatg taactcctaa ggatactgag gattttttaa aatgcgtgta cagttcctga 900
ccagtggttt gtgcctaata acttattaca aattattacc cagtaaaaac cttgagacaa 960
gagtgaaaac gtaaagctaa ttaatccatt acttgtagc aagcaaaacta cgtgcttgag 1020
aaaattactc aactttcatg ttttacttcc agacagtagt ttgattaaaa gaaaaaaaaa 1080
aaatccagcc caagcatggt ggcttacacc ctggcacttg gaaggcccaa ggtgggaacc 1140
ataagcttgg agccctanca anttttgaaa actanccctg ggggcaac 1188

```

<210> 656

<211> 1132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<400> 656

```

gacgcgtccg ccgcctccgg aactaaacgg ggtgagggtca cattcgggtta tctctaacgt 60
tggaacacga tggagctaac acccattatg gagattaacc acttttcac aggtttttaa 120
cttaagtcgt gaggaatata acggtgaaca caagattcat tttattttca tcaccatggg 180
acgtatcctg ttgttgagtt ctctgggtca gacctctgaa gacttctcag atggatccta 240
gtctctgggc ttgcentgaa attactcgtc gctcaggag agagttgaaa tggttggcat 300
cctcccactc tgttgctccg gctgtgtccc ctgctctgt tggtccagct atgtcccctc 360
tgttgctcca actgcagctc attctgtag agttcctcat tcagctggtc actgtggcca 420
gaggggtggtt gcctgctccc ttcctcaagt attcttaaag ccatggattt ttgtggagca 480
tttttcttcc tggtctctcc ttgagttatt ttctttctt cgctatcttg ggactcttct 540
ttgtgcttgc ggwcacgggt tgagagaagg acttcttctt ccttgtctcc ttggtgttgg 600
ctcgtgggtt ctcttcaaca actggactgg aggtctcttg tttctcttc atcttcaaca 660
agtcagtcct tctcaagggt ctacagttgc agcattctta ccagaggcca ttgggccttg 720
agttccagtt ccagtgtctg gagagtcac ctgagctcag caatctcatg ccggttggca 780
attgtcagca gaagccgatg cctgcccac agttctttac tctgaggtgt tagagtggaa 840
taaaaatata aatacttata ctagttttca tgacttctgc ttaatattgg gtattttttt 900
gttttgtttt gttttggcgg tgataggctt accttacatt aaaccaggcc ttagcctttc 960
tgtggctttt ttatgcaaag cctcatatta ctctctagtc tggttcagca ggacagtcag 1020
gtccacacct ggggtgttt gttttctacg ttacctcaa cataaggtac cttatcattg 1080
tcagccttca tctctgatc caaaaataaaa taaaatgcca caggttactt ga 1132

```

<210> 657

<211> 566

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

452

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<400> 657

```

aaaaaaaaa caaaaaaaaa aaaactactt ctaattagct caatattaat attttaacaa 60
gttgggttgg taacagtata tctttgssca tgctggcaaa ttcttgtttt gtcagcattt 120
tccataactc tggccaaagt gtcacctgat gtggcaacgt tttacagtct tgctattggt 180
tcttgagtcc tttaatctat aagatgtatt tttaaaaata tataacatat aaattttggt 240
tcgttatagc tctttaaaaa aaaaaaaaaa aagggcgggc cgntctagag gatccaagct 300
tacgtacgcg tgcattgcgac gtcattagctc ttctatagtg tcacctaaat tcaattcact 360
ggcgcgtcgtt ttacaaccgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 420
ttgcagcaca tccccctttc gcagctggcg taatagcgaa naagcccgca ccgatcgccc 480
ttnccaacag ttgncagcc tgattgggga atggggacnc gccctgtatc ggcgcatata 540
gcgcggcggg ttgcggtggt ttgcgc 566

```

<210> 658

<211> 1178

<212> DNA

<213> Homo sapiens

<400> 658

```

atccagcggg tgagtctggt gaggagtctt tgcgagagcg aggagcagcg gttactggaa 60
caggtgcatg gcraagagga gcggggccac cagagcatcc tgacacagcg ggtgcactgg 120
gccgaggcgc tgcagaarct tgacaccatc cgcactggcc tgggtggcat gcttactcac 180
ctggatgacc tccagctgat tcagaaggag caagagattt tcgagaggac cgaagaagca 240
gagggcattt tggatcccca ggagtcggaa atgttaaact ttaatgagaa gtgcactcgg 300
agcccactac tgaccctaact ctgggcaacg gcggttcttg ggtctctctc aggcacagag 360
gacatacgga tcgatgagag gacagtcagc cccttctctc aattgtcaga tgatcgaaag 420
accctgacct tcagcaccaa gaagtcaaag gcctgtgcag atggcccgga gcgcttcgac 480
cactggccca atgccctggc tgccacctcc ttccagaatg ggctccatgc ctggatgggtg 540
aatgtccaga acagttgtgc ctataagggtg ggcgtggctt caggccacct gccccgcaag 600
gkttctggca gtgactgcgc tctgggccac aatgccttct cctgggtctt ctctcgctat 660
gatcaggagt ttctgtttctc acacaatggg cagcacgagc ccctggggct gctgcggggc 720
ccarcccarc tgggtgtagt gctggacttg caggttcagg agctgctctt ctatgagcca 780
gcstccggca cagtgtctctg tgcccatcat gtgtccttcc cggggccctt ctccccagtc 840
tttgctgtgg ccgatcagac catttctatc gtccgctgac ctctggccac aggaagccag 900

```

453

```

gtccaccgcc caccaccctt tcaggccatg tttctactca gtgtgctttt cccaaatgat 960
gtgtgtggtg tttctaagag aaacagggcc cataaccagt gggcagcttt aggagggatg 1020
gggatctggt tcagatctag gcataacctg taaatcacag gtgtccaaac ttttggttc 1080
cctgggccac atttgaagaa gaattttctt gggccacata aaatacacta acgatagctg 1140
atgagctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1178

```

<210> 659

<211> 924

<212> DNA

<213> Homo sapiens

<400> 659

```

gctatagtct gtkaaatgtg cagtagcgtt gtgtcttaaa aaatgtgcat actttaaaaa 60
tgctttattht aaaaaaaaaatt ctctgatca tcttgagcct tcagggagtc atgatctttt 120
tgctggtgga gggtcctgcc tctatcttga tggctgctga ctgagcagag tgggtggttg 180
tgaaggtycg ggtakctgta gcaatttctt aaaataagac agtaataaag ttgccacatc 240
aatgggactc ttcttttcac aaaagatttt tctggaagca tgggatgctg tttgataagc 300
atthttacca cagtagaact tctttcaaaa ttggagtcag tcctctcaca ccttgccact 360
gttgtactat gtttatcaat attctaaatc ctttggttga ggctaaacaa tattcacagc 420
atthttacca ggagtaaatt tcatctcaca aaaccacttt ccaggctctt tctggactgt 480
agagttcttht ccaggctacc ttgtggcagt ttaagagtct ggcattcttt tccgctggga 540
cctaaggatc gaggaggtgc ttgtgactag actgccaatg gacccatcac aaagtthaac 600
ccaaccttga tccccgagtc ttcacaaatg ctactgaag aaaattccta gaacaattca 660
gggtccttht ataacctcta ctctgaggyg ttaataaaaa accttagtaa cttaaaaaaa 720
atgagctgta cacaaatact gaacaataat gctacatatg ttaagtatgt aagaaaaata 780
tatactthtga cataaataag aaacggtgag ttgataattg gatagaatgg tggatagagt 840
gakagatatg tagtaaagca aatataacaa aatgataatt gtacaatcta agtggttgga 900
ctataaatat gcacttccca caac 924

```

<210> 660

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<400> 660

```

aggcgagtag catgtgcggg agactcacgt tgccggcgaa gtgggagaga gaaaagtggg 60
ggtgaacaca ctgtggggta gcttcgagat cagcaatgtg agactagccc gggatcatgct 120
gacacagtht gccgaggggc ggctggaaga tcaactggac aaatatgatc actgggctga 180
ccgctthttag gacctgcccc tctatttcat gactttccat ggacagcaaa gcatcaggac 240
tgtaatagat acaatgcaac atgcagtcta cgtctatgac atthgtcatg tgatcatcga 300
caacctgcag ttcattgatgg gtcacgagca gctgtccaca gacaggatcg cagctcaaga 360

```

454

```

ctacatcatc ggggtctttc ggaagtttgc aacagacaat aactgccatg tgacactggt 420
cattcacccc cggaagagg atgatgacaa ggaactgcag acagcgtcca tttttggctc 480
agccaaagca agccaggaag cagacaatgt tctgatcctg caggacagga agctggtaac 540
cgggccaggg aaacgggtatc tgcaggtgtc caagaaccgc tttgatggag atgtaggtgt 600
cttcccgtt gagttcaaca agaactccct caccttctcc attccaccaa agaacaaggc 660
ccggctyaag aagatcaagg atgacactgg accagtggcc aaaaagccct ytttggcaa 720
aaagggggct acgacacaga actytagat tkgytcaggc caggcccma ctcccacca 780
gcagacacct ncaagcgnlc aaagtgaagg ccg 813

```

<210> 661

<211> 1718

<212> DNA

<213> Homo sapiens

<400> 661

```

ggccgggcat cgcaggcgcc ctctcggggc ctcccgccg ggggcgcaa cggggagagc 60
ccggggggcg gcgccccctt tccgggcagc agcggctctt ccgcccgtgt gcaggcggag 120
gtgctggatc tggacgagga cgaggacgac ctggaggtgt tcagcaagga tgcctcattg 180
atggacatga actccttcag ccctatgatg ccaacatccc ctttatcaat gataaaccaa 240
atcaagtttg aggatgaacc agatttaaag gatctcttca tcacagttga tgaacctgaa 300
agtcatgtta ctacaataga aactttcatt acgtatagga ttattactaa gacatctcgt 360
ggggaatttg actccagtga atttgaagtt aggagacgat atcaagattt cctttgggtg 420
aagggaaaac tggaagaagc acacccact ctgattattc caccattgcc agaaaagttt 480
atagtaaaag gaatggtgga acgctttaac gatgacttca ttgagacacg caggaaggct 540
ttacataaat ttttgaaccg aattgctgat catccaactt taacatttaa tgaagacttc 600
aaaatttttc tcactgcaca agcttgggaa ctctcttctc acaagaagca aggtcctggc 660
ttgctaagca ggatggggca aaccgtcaga gctgttgctt cctcaatgag aggagttaa 720
aaccgcccag aggagttcat ggaaatgaat aactttattg aactatttag ccagaaaata 780
aatttgatag ataaaaatc tcagagaatt tataaggaag aaagggaata ttttgatgaa 840
atgaaaagat atggcccaat tcataattctg tggtcagcgt cagaagagga tctgggtgat 900
actctaaagg atgttgccag ctgcattgac agatgctgta aggccactga aaagcggatg 960
tctggactct cagaggccct gcttcctgtt gtacatgagt acgtgcttta tagtgaaatg 1020
ttaatgggtg ttatgaaaag aagagaccaa atacaagcag aactggattc caaagttgaa 1080
gttttgacct atwaaaaggc agatactgat ctgcttccag aggagattgg aaaacttgaa 1140
gataaagtgg aatgtgctaa taatgccctg aaagcagatt gggagagatg gaaacaaaat 1200
atgcaaaatg atatcaagtt agcatttaca gatatggctg aggagaatat ccattattat 1260
gaacagtgcc ttgctacgtg ggaatcattc cttacatcac agaccaacct tcacttgga 1320
gaagcctctg aagataaacc ttaatcccat tgaggacttc tgtttgatct ttgggagaca 1380
gcatttatta accaaagtta ttctttctgg atctgccgtg tccttataaa gtggatgaaa 1440
aatgttttgt acccatctgg aaaaccaaca acttgaaatc tcaggatttc caggtcactg 1500
acatgaattt gaagatatat ctatctgtat ggatatatat ctatatgtat atagatatat 1560
aaatacagag agatatctgg ctgggtttta attatgttct taaatttgtg tgccaataat 1620
tgcatataga tttttttct taaatatttg actgtggaac atgccatttt aaatatgttg 1680
taaggactgt ttttaataaaa agtttagtat gaaaaaaa 1718

```

<210> 662

<211> 1114

<212> DNA

<213> Homo sapiens

<400> 662

455

```

gcggcggcgg cgcagggggt ggtacgcgct gggcggcgag agctcatggc ggaggaagag 60
agcgaccaag aggccgaacg cctcggagaa gagcttgtgg ccattgtgga gtccccgctg 120
ggccctgtgg ggcttagagc tgcggggcgac ggcagaggcg gcgctggcag cggcaactgc 180
ggcggcggcg tcggaatcag cagtcgggat tactgccgac gcttctgtca ggtggttgaa 240
gattatgctg gaagatggca ggtccctttg ccacagcttc aggttcttca gactgccctt 300
tgttgtttta caacagccag tgcattcatt ccagatgaat gtgagcatgt acaatatgtt 360
ttgartagcc ttgctgtgag tttctttgag ttgctgtgtt tctttggaag agatgagttt 420
tatgaagagc ccttaaagga tattcttgga tcattccagg aatgccagaa tcacctccgc 480
agatatggaa atgtgaatct ggaactggtg actcgaatca ttagagatgg tggcccatgg 540
gaagatccag tggtgcaagc tgtccttaaa gctcagccag catctcagga gatagtgaac 600
aaatatttaa gttctgaaaa tccactgttc tttgaactac gtgccagata cctaatkgtc 660
tgtgaacgca taccggaagc aatggctctt attaaatctk gtataaatca cccagaaatc 720
agtaaagact tatacttcca tcaagcactc ttcacatgtc tgtttatgtc acctgtagaa 780
gatcagctat tccgggaggt attgtttgag actatttttg cctattacca ttttaaccct 840
acaaaaaaaa aacaaaaaaaa aaaaagtagc ccactgttgt tgttaaattc cttttacagt 900
aatgccaaag atttaaggat tacattatct ggatgtgttt tcttttgga ccataactta 960
aggctcatgt gaattagtca aaatctgata ttaacaaatg atgaaatcaa taaaatatac 1020
tcattaataa gtattattca cattgcactt ttgatgtgat ggagaagagg tcaaataaaa 1080
gtcaacaagc tcacagcttg ccaggagtaa aaaa 1114

```

<210> 663

<211> 341

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<400> 663

```

gattaaaagg atggctcttc ctaangtaat ttactctttg ttggttttan gaaatctttt 60
gcatgtatan ggtataaaac aacaactgtt tataatgttac ttccattagc cgatgaacta 120
gyggktaa atgatgttcaa atagaaaata agttaattcc actaatagat tgtgttttca 180
ttaaagtc ataatgaaa taacacttta caaagttcat ttgtttgagt atcttgcatt 240
actgtgaatt atattgtaaa gtagtttaaa gtttaacatt aaagataaaa ttattatttt 300
tgctgttatg gtatgaataa aaaaatttga ttaactttta a 341

```

<210> 664

<211> 285

<212> DNA

456

<213> Homo sapiens

<400> 664

```

accatggcag tacacaggcc gccgccaatc tgcttaacac caaccagctt gacgcgcgca 60
gctttcacca tcgcgtcaga agcctcaatc agtgcaacca ggccccgggt ttcgatcatt 120
cctaattgctt ccattgtsct ttcctcttta tcagggtcca gaacgggacc gttcattcaa 180
ccagtgtttg taaactgctt tcgcgggttca ctwctgtctg acgcggcaca gctgccacca 240
gcgccagctc gataatttcc tgcacgctac aaccacgaga gagat 285

```

<210> 665

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (608)

<223> n equals a,t,g, or c

<400> 665

```

atgaaaaata acagattata tatagtttga actatttttc gtgtgctttt ttaaacttgt 60
taaaaagaaa tttatataaa atttaaaata caaatgttaa attatccaga aatacagaat 120
agttaatatt gctagaacca aataacctct aaaatgtttt ttttttggtt attttgtcat 180
gctaagcact tttgtatctg cacaattcag taggttaaga atcaatcttc tttttcttaa 240
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atttggtgta atgtttgcta tatatatgtt acttgaaatg ttaaatttaa tatgcagcat 420
accatagggtg tatatatagg tatataattt taagggttaa atattcagtc tacaagtttg 480
gttccttatt taagcttttg ggctaatact gcatatggca caatgtttta atattggcaa 540
kttcatctca raraagggga tcaratataw ttttaaagtt naaaaaaant tactgaaacc 600
tccccctnaa aagcctacct ttatttaaac c 631

```

<210> 666

<211> 1529

<212> DNA

<213> Homo sapiens

<400> 666

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aaaatttgct gtaataccaa aactaacctc atcaaagata cagaaaaaaaa gaaatatagt 60
gagccctaaa ggacacatac attgaataaa taattggaac atgtgggttat ctttagatcc 120
acatcttagc tgtcatttgt tcactctaaa actgatgttc atctttctgt taatttcctt 180

```


457

```

ctgcctaaag actacatgac agaaatgacc tatcactact tattatttct gaagcctaac 240
tgcaagactg atttctgaga acaagtaaag aactggaata cttatttttc atataaaaaat 300
ctaaatgtgt taataaatca ttccatacaa aagtacatta ttaaataacc acattattaa 360
aataattgca agaaaatgga ccatatttac aatgttttgt aaacttgcta gtgtgtggat 420
atgtacccta cttgtgaaat acatttgaag atataaagag cagccaaaat gatggcaaaa 480
tggtaggcta atattttcta ttattattgg agaacatata atattttgga atcatgcaat 540
tttgcacaca gtgaaaccat taattttcca aggtaattcc tttagaatat ggtattggca 600
tgcagtttct tacttatcta gaatatttgg cttatctgaa agatatcaat ttaagatctc 660
tggaagtgtt agaatttttg atccttcaca gtgtcaatat ttaatgaatc actaagcttt 720
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acacactatg tgtaaaccag tcccaccact tattactaat aaaattttga ctgataattt 840
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agattaattt cttgtttataa taattttcat cataaatttt ctatttttaa agccgctggt 1440
actagaaata ttcttttaat gctatatcta tgtacctact gacacatttt tctccataaa 1500
agtactttta aaaattactt catgatttg 1529

```

<210> 667

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 667

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tcgacccacg cgtccttaag tttttcaagt tatccttttc tgaggaaaat tattctagag 60
gaacctaaaa agggacaaaa aaattgaaac ttcttaggag tctaactctg gtgccttctg 120
ttaaaagtca gtgtatcaga aaagaaagca gccatgtaag aggctaactt aartagaagt 180
gctagaaata tctttgtgta ttaacatgca ataaaaggta ccattcaaag caggggggaa 240
ggtaggaaga agaggtaatt ttactgaaa attagggcaa tgttggtcgc cttttattaa 300
aagctttttt taagctttca taaagattgc tttttgctat ttttgaaaat atggtattat 360
agtttgtatg gtaactgggc atatatgaca gtctactgca tatatatgaa tgactaggat 420
taatctgggtg tgtttacata ggatatacat agttgaaatc tagcatgaaa ggtaaaaaag 480
gagatactgc acaatatattc ttaaaagtaa aatgctgtta ttgtgatgag tctttgggtt 540
aacatcacag tattctgtga tgtcttttta actttttgga aagaggtatc atttgtagaa 600
aaaatttgat ttgggttaaa tatagggttt taaaactata aatgttgtct tttttatatt 660
tttatgaaaa agcagtagaa aattactttt gaagaaaaca ggctatttaa atattgaaat 720
atatgtatgt tgtgagttta aggagcctgt aattgtcagt ttacaaaac catctgtgtt 780
caatggttgt aaataaattc tcaaaacatc atttcaaagg ctgcctacag aatattatca 840
cttgacagat agagttaata aattaccaat caggcacatt ttataatgtt tgtctctgta 900
aaggtaatat tagcagttaa agaacacgga tgagaaaaga atgtgttaca taggttgcac 960
cacttgcagt taaataaaaac tcacaatttg tgctcacagc aaaaaaaaaa aaaaaaaaaa 1020

```

<210> 668

<211> 810

<212> DNA

458

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 668

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ggcacaggnc atttttaagt gtttagagtt ttttgggggtt tgggggtgggtt ttttttcctt 60
gttttccttt tttcctttta attggatgca ctgacctggc ccaggaaatg aagagattct 120
cttttgatgc tattaccaat gttatcataa agtgacagtc acctgtaaca aaaagggtggc 180
accagacatg atcactgatg ttttatttgc acatcaatat ttttattttt gtattctggc 240
tcagctgctt ctctgagtgg agttaaggaa tgagccacaa agatttttgt agtaggtata 300
ttggcattgc attttatatt cctctatatt taattttgaa aacctaaaag aaggattgtg 360
catcttgaga gaaagttgag caaattgtga tctagcggaa tgttaatttg tgctgcttct 420
tgtgcacgat agcagcagta gtatctctct tggaaaataaa catcccatat tatgatgtct 480
atgaatatag gtttcctttt ctctcctccc tccctccttc cccacacctt ctcttttttt 540
tttctctctc agcttctctt tctctccttc cctcttccct tctcttttct ttactttttt 600
tgaaatcact tattgtaaat aagttgtaat ccaaacctca tgtatcaatg gggaattttc 660
aaatataaat attaccaatg cattttctgg ktggtggctg atttttgatt gaagataatg 720
agaatgacat gtctgggtgt ttkgggtgag gactcgctta gtcataaac tttkggattt 780
tagaattcaw tgnttaaccc ggaaaaggcc 810

```

<210> 669

<211> 2501

<212> DNA

<213> Homo sapiens

<400> 669

```

taaatatgca tatagtagag tgcaaaaata tagcaaaaat aaaaactaaa ggtagaaaag 60
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agagaccagt gcctgggtgg tgctcctctt tgtctgccct catgaagaag cttccctcac 180
gtgatgtagt gccctcgtag gtgtcatgtg gagtagtggg aacaggcagt actgttgaga 240
ggagagcagt gtgagagttt ttctgtagaa gcagaactgt cagcttgtgc cttgaggctt 300
ccagaacgtg tcagatggag aagtccaagt ttccatgctt caggcaactt agctgtgtac 360
agaagcaatc cagtgtggta ataaaaagca aggattgcct gtataattta ttataaaaata 420
aaagggattt taacaaccaa caattcccaa cacctcaaaa gcttgttgca ttttttggtg 480
tttgaggttt ttatctgaag gttaaagggc aagtgtttgg tatagaagag cagtatgtgt 540
taagaaaaga aaaatattgg ttgcgctaga gtgcaaatga gaactagaaa gttttatacg 600
attatcattt tgagatgtgt taaagtaggt tttcactgta aaatgtatta gtgtttctgc 660
attgccatag ggcctgggta aaactttctc ttaggtttca ggaagactgt cacatacagt 720
aagctttttt ccttctgact tataatagaa aatgttttga aagtaaaaaa aaaaaaatct 780
aatttggaata ttgacttgt tagtttctgt gtttgaaatc atgggttctag aaatgtagaa 840
attgtgtata tcagatactc atctaggctg tgtgaaccag cccaagatga ccaacatccc 900
cacacctcta catctctgtc ccctgtatct ctctctttct accactaaag tgttccctgc 960
taccatcctg gcttgtccac atgggtgctct ccatcttctt ccacatcatg gaccacagggt 1020

```

459

```

gtgcctgtct aggcctggcc accactccca acttgacctt gccacattca tctagagatg 1080
gttcctgatg ctgggcacag actgtgctca tggcacccat tagaaatgcc tctagcatct 1140
ttgtatgcat cttgattttt aaaccaagtc attgtacaga gcattcagtt ttggctgtgg 1200
taccaagaga aaaactaatc aagaatataa accacattcc aggctgctgt tttctctcca 1260
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agcagtgtgg aaattcactg cctgggacac agtcttataa gaatgttggc aggtgacttt 1500
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aaggaccacc aaaactttta gtaccctatc attaaaaatc tggtttttaa agtagctcaa 1980
gtaagggatg ctttgtgacc cagggtttct gaagtcagat agccattctt acctgcccct 2040
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aacatgtcag aaaattcaga gggttgcata ccaataatcc tttggaaact ggatgtctta 2160
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aaaatattgg tagcaataaa aaataataaa aacaataact ttaaactgct ttctggagat 2400
gaattactct cctggctatt ttctttttta ctttaatgta aaatgagtat aactgtagtg 2460
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```

<210> 670

<211> 429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

460

<400> 670

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ctcacttcgg gcatgtgatc ctgggtatca ggtgttacat tatatagtat tttacagagg 60
aagtagctca gcaaatttaa ctggcctcag agtctgtggt tcagttggtt tgcacagggc 120
taaaagctgg tgagtgggtt atacaccatc acaaaggatg cccattcttc gcagtgactg 180
cagatgcgtg cggacggaga gcacaaggat ctcactatca tttctccctg ctaactccta 240
gaaagctttc cactttcttg gacacgttat ttaaagtgtt atagtttgtt tttttaaaact 300
tgtgttcaga aaacacttac caccatattg cttcactgta ctattccaat tcagctcctc 360
tgttaccna actctatatn gtgcttggt aactattcca tgaaatttan taccnggaag 420
aaattaggc 429

```

<210> 671

<211> 1482

<212> DNA

<213> Homo sapiens

<400> 671

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cagggcactg agtgattctg gatgggcttc tgacctgggg acaatttaaa cagcattaca 60
accgacattt tggttttctt ggggatttta taggccaggt acaaagcaga aagtgcatag 120
aagatgtgat ccactttgcc tgggaagaga agctctttct cctggctgat gaggtgtacc 180
aggacaacgt gtactctcca gattgcagat tccactcctt caagaagggtg ctgtacgaga 240
tggggcccgga gtactccagc aacgtggagc tcgcctcctt ccactccacc tccaagggct 300
acatgggcca gtgtggttac agaggaggct acatggaggt gatcaacctg caccctgaga 360
tcaagggcca gctggtgaag ctgctgtcgg tgcgcctgtg cccccagtg tctgggcagg 420
ccgccatgga cattgtcgtg aaccccccg tggcaggaga ggagtcttt gagcaattca 480
gccgagagaa ggagtcggtc ctgggtaatc tggccaaaaa agcaaagctg acggaagacc 540
tgtttaacca agtcccagga attcactgca accccttgca gggggccatg tacgccttcc 600
ctcggatctt cattcctgcc aaagctgtgg aggctgctca ggcccatcaa atggctccag 660
acatgttcta ctgcatgaag ctctggagg agactggcat ctgtgtcgtg cccggcagtg 720
gctttgggca gaggggaaggc acttaccact tcaggatgac tatcctccct ccagtggaga 780
agctgaaaac ggtgctgcag aagggtgaaag acttccacat caacttcttg gagaagtacg 840
cgtgaggacg cctgagcccc agcgggagac ctgtccttgg ctcttctctc caatgcccgt 900
caggctgaac tcgcctcccc cgtgactctg cctcgggctt cgcagaggcc gctggtcact 960
tcgtcatcat tttgccccctg gagacgtctt tctttgtgcc ttgatgttga gagcgctct 1020
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tgaccagggg tctctgaatc tgttattgtt tttgcttctg gaaagtccat ttgggggtta 1140
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ccctcactgg gagcttcccc atcctccctg ccttccccag tgggaagtta gggaagctca 1440
ggagcctggg accccgcatg tcccaaaatg ggattggaga ag 1482

```

<210> 672

<211> 607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

461

<220>
 <221> misc feature
 <222> (585)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (596)
 <223> n equals a,t,g, or c

<400> 672
 aattcagcac gagatgtcac attgaagaat ttcttcatga tacattttca ggcacacttg 60
 taggaaaatt aggatcatga gtccctgcttt aagtatttgc agtgtagtaa gagaatccat 120
 cttttactag gagaccagat tcctttttata cctcattcat catgctggat tgtaataaat 180
 ttcagatttt ggaatgggct tatttaactg acctaacaat cttgatgatt tccattagaa 240
 taacttattc taagggtcaaa agtggaaaga cactgttggt ttttattttg atttcactat 300
 actcattttt gaacatggaa atacagtggg gaaaccmctt atgcaaaaat gataacagtg 360
 aggaaattat gacagtgaag gagatctgac ctaactatct atcttgccctc gaaactgccc 420
 ttggtcgttc ctgagtggtg gccaaagctaa ctttgggaga aatttacttt atagggttaaa 480
 ttataatagc ccttccccna aactaaacgg attctcctgc ctcagcctcc cgagtagctg 540
 tccttataat accatcagcc tatcatttat tcgtcatggg atggnttggt tcccanatcc 600
 cctatcc 607

<210> 673
 <211> 470
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (389)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (469)
 <223> n equals a,t,g, or c

<400> 673
 ccattcaacc cagtacaaaa tccaactgaa gccagcaag tggctcatgc ctgttctatc 60
 tctgaggaca gttgtgattg gatttagggc ccatccagtt agtccaggat gatctcatct 120
 caagatccta aatctgatta caattgcaaa gatcctttt ccaaataagg tcacatgcac 180
 gtaagttccg gggattatgc ttgcgtggga cacatctttt ttgaggccac cattcaaccc 240
 actacaaaat ccaactgaag cccagcgaag tggctcatgc ctgaaatccc cgcactgtgc 300
 gaggccaagg caggagggtc acctgaggcc aggagttcaa gagtagcctg ggcagcgtag 360
 ggagrtccck atctcttttt tttttcgana tggagtttcg ttcttggttac tcaggctgga 420
 atgcaatggc gcaatcttgg ctcactataa ctctctctc ctgggttcna 470

<210> 674
 <211> 1110

462

<212> DNA

<213> Homo sapiens

<400> 674

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ggcagagctg ttttggagat tgattgggtg ggtctagagc cagaattcat atttttaata 60
tgcattccag gagactcctg cgaatcagat gcatttggaa atcattgcac taagtcatac 120
ctctgggtac tccaaacagc tagtcctgag gcttccttgg gccttagaat tttttcttca 180
aatgtcctgg tgagggtccct ctcaatcctt tggggctggc tgtggtgagt cactcagaag 240
tctggctgtg acctgggatg ggctcaccag agtacgctat ggtagtggga aaacaggcag 300
agagaaagga gtgtcaggag cactcccagg gaggtgttg tagatatttc cattcccaga 360
acagtgatct attgtgacag tctcagaaca gacaacaaga attacaggta attttctcat 420
tctcttgata tatttttagc aaaacttaaa tcatgaatag aaggaaaaga tgccattggg 480
gaaatagaaa aactcaatca ttttataaag catacaaatc ataaggatga ctggccaata 540
gcactcccac tttggtctta cctaaagtgg ggtggacaag aataataaaa gtcctcakt 600
tatatccttc caaaatcaga tttaaatgct gccagcatct taatggaagt ctgaaattga 660
ttgataggat gtgaaatcc aaattcacta aaataggggg ccagctacat aaagtcctag 720
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gatctatgaa gcttgaagaa ggggcattta acatcagagt ggtgcaaggg cagtgttgag 840
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aatatttgtg ttatttttat gatatattac tgtttacaga acactttcat ttgatcccaa 960
catcaactgc tgtgatagag gcagggcaga tgttgtggtc tcattacata gaatgtaaaa 1020
ctgagggtga aaaatactaa gtgacttgtc tgtagtcaaa tggtttttaa aattataaag 1080
ccaggccttc tgactgtcaa aaaaaaaaaa 1110

```

<210> 675

<211> 250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (245)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<400> 675

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ggcacgagcg gcacgagcta gttcctaate ttaatctagc ttcaacattg ccctgcttgc 60
aaatttacta ctttttaaaa tgacttgaat cttctctatt ttacagttc ttgtctattt 120
tttccctgta acagtttgta tgaacactaa tgtggtgttc aacctccct ttcaatttta 180
gagaattgga ttctatattg gaacgtcact taaatttttg agtcctcaaa accaaccttg 240
ttggnntggg 250

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<210> 676

<211> 692

<212> DNA

<213> Homo sapiens

463

<220>
 <221> misc feature
 <222> (50)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (73)
 <223> n equals a,t,g, or c

<400> 676
 tgggggctct ggactgtggc tcacccgctt cctccacacc ctattttcacn ggcctggagc 60
 tcccagggga ctngaagctg gacgcgcctt acaacttcaa ccacccttty tccatcaaca 120
 acctaatgtm agaacagaca ccagcacctc ccaaactgga cgtgggggtt kggggctacg 180
 gggctgaagg tggggagcct ggagtctact accagggcct ctattcccgc tctttgctta 240
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 gctcttgggg cctgacccct ctggtgacac ttcacttgct ccattgggta acatctgggt 360
 gggctctatta cttactgtga tgactgstgt ctcagtgggc atggtgttga tccacggggt 420
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 ccattctctc tggcatgggt tgggtagggg atggagggtga gaatactcct tggttttctc 540
 tgaagccac cctttccccc aactctggct caggagaaac cagaaaaggc tggttaggggt 600
 gtggggaatt tctactgaag tctgattcct tcccgggaag cggggtactg gctgtcctta 660
 atcattaaag gtaccgtgtc cgccctctaa aa 692

<210> 677
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (356)
 <223> n equals a,t,g, or c

<400> 677
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 ggctcgaccca cgcgtccgat tgttttgtat tttctagagt tttatataaa tgggaattaca 120
 tagtatgtac ttttctttat agtctggctt ctttctactca aataattatt ttgagattct 180
 tctctgttgt tgcatgtata aataattcat tcattttttg tagtaatatc ccattatatg 240
 ggtataccaa aatttatcat tcatttgctg atgagcattt gggttattta cagttttatt 300
 tacaawtaaa gctgttacga atattagtgt acgagtcctt atatggacat atattntcat 360
 tt 362

<210> 678
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (87)

464

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<400> 678

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aggattcagg ctgcagaaca taagacacgg aaagacgaaa aacgcaaagc tgaggaagcc 60
ctcagtgacc tcagacgtca tatgaanctg naagtaggag atctgcaggt gaaccattaa 120
aaagctaaga aagctcgaag aacaatcaaa aygcgtaagt caaaaggaag atgtggctgc 180
attgaaaaaa caaatattatg atttatcaat ggaaaaccag aagttaagaa agacctttta 240
gaagcacaga caaacatagc ctttcttcag agtgagttag atgctttgaa aagtgrttat 300
gctgatcmga gtctgawtac tgaaanggat cttg                               334

```

<210> 679

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<400> 679

```

gcaggaaggg tagaggggac tggagttggc taagttctct ttctccaagt caggtaagac 60
tctgggtgcag ctttttcctt tgggtggtctg gcctttattg tggaaaatgc tatgggttca 120
tttcaaaatg gctatctttc aaacctgagc atatttcaaa atagttactt ttttctgcc 180
catgggtcaaa caagagagtt ttctctgtgt cttcgccatg agaacctggg agggcatctg 240
aaggtaaaat ccgtgaatgt atgagggctg cctttaactt aaacttgaaa cctcccaggg 300

```


465

```

gattttatct cacaagcctg atcagtgttc aagytcacac agytaatcaa ttatcattta 360
agcattctta gctgctcatg cctccagcag ttccaaatcc tggcaaacta tgattctgtg 420
tatttgcccc tcgctccagt ttttggggca tgagtttttt tctgtaactt ctgggtctctg 480
atggatctca gaaaattcat taattttcaa tttgtacatc ttttctcttg gtaggacagg 540
aatgatcatt tacaagctct ttatatgtca nagcccaaat canaagctgn aataatccca 600
naaattgggg ttt 613

```

<210> 680

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 680

```

ggaaccaggc tgtggctctg acctccagca gctgccagtc atcttggcaa catagaaaat 60
caaggaaacg gcctaaaggc aggcagaagt gtgtgtcagc aaggtcccaa ctatgtaaga 120
tggacacgag ggactcacct tcagggagga aagagccggg gcagaacgtc aggagactgg 180
ccaaagggtc ttccctgctt tcaggacgag actagactcc tcagtccctg atttmaggct 240
cctgccaccc gcttgcctgt cactgatccc tccctcccac tgtcggcctc catccagggt 300
gcagtgcctg cgctttgtma ggctctctct tgtctctgca ttttgacaaa gctctgacct 360
anttaccgaa atgttctnca accacctnca tcttgcattg 400

```

<210> 681

<211> 585

<212> DNA

<213> Homo sapiens

<400> 681

```

caaagggttt tctttgaaga caggtsaaat gctgttagta agtttcagga gattgttaat 60
tcctcagtta taccagattt tataaaatat ttgagaatag atggctaaca agaggttaga 120
aatacttttc cttaatttta atccacagta tgttacatgc attctaccac tacattttgg 180
tgctatttaa ggtgtgcamt tttctatagg tgacttttgc aattcaggga agatttgggc 240

```

466

```

atattaaatg aaagaatatc taattggggg aggtgtgaag ggaaagaaat tcttttcaaa 300
agctgaccac aaagagkagt taaaagtttt tgctactatc ttcacaagtg tgtaaagcac 360
agatttcaac agagtgttg gcatattgka ggggtgctcaa tgggtggkttt tattattatt 420
actcagattc cacagtggca agaaacatca ttctacataa tggaaaacat ttacatcaaa 480
tcccacttac tttaatgcga acttggagat aatttatggg attgtattgt aaaccattaa 540
tgaaaacttt ttcacagttg agtgaaatta aaatcactat atctc 585

```

<210> 682

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (576)

<223> n equals a,t,g, or c

<400> 682

```

ttgcagctat acaaaatatt taaaatctca agtattcacc ctagatagag ttattatcta 60
agcattttat cttatccatc tcaaaaagaa aagaaaagaa gactctgacc tgtactcttg 120
aatacaagtt tctgatacca ctgcactgtc tgagaatttc caaaacttta atgaactaac 180
tgacagcttc atgaaactgt ccaccaagat caagcagaga aaataattaa tttcatggga 240
ctaaatgaac taatgaggat aatattttca taatttttta tttgaaattt tgctgattct 300
ttaaatgtct tgtttccag atttcaggaa actttttttc ttttaagcta tccacagctt 360
acagcaattt gataaaatat acttttgtga acaaaaattg agacatttac attttctccc 420
tatgtggctg ctccagactt gggaaactat tcatgaatat ttatattgta tggtaatata 480
gttattgcac aagttcaata aaaatctgct ctttgtatra cagaatacat ttgaaaacmt 540
tggktatatt accaaaactt ttgactagaa tgctcgnattt gaggatataa acccataggt 600
aataaacccc 610

```

<210> 683

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<400> 683

467

```

tcataattttt antttttttt ttttctgtta tacaaagagc agattttttat tgaacttggtg 60
caataactat attaccatac aatataaata ttgcacaagt tcaataaaaaa tctgctcttt 120
gtatgacaga atacatttga aaacattggt tatattacca agactttgac tagaatgtcg 180
tatttgagga tataaaccce taggtaataa acccacaggt actacaaaca aagtctgaag 240
tcagccttgg tttggcttcc tagtgtcaat taaacttcta aaagtttaat ytgagattcc 300
ttataaaaaac ttccagcaaa gcaactttaa aaaagtctat gtggtcagtc actactcttg 360
ctgcagttat gaaaaanaat gangccaagt ctgatgaaaa taaacttatt ttgaa 415

```

<210> 684

<211> 653

<212> DNA

<213> Homo sapiens

<400> 684

```

ttagcttctc attgagattc ctagagggtgc gttcgagttt tcagagtaat tttccagacc 60
aaccagcgtc agtgggaaat ctgacctctt ttggcaaact gcgatcattc attttctga 120
gtccccgtgt ggggtggggg aattctgcct caggaccttg aggggtcttt ggggcaagat 180
ggccttggtta atgcagccac taagaacagg acttcattca aaggcataat gaagtaacca 240
gggtgaccat caagtaaaat taaagcaca gatcattgta ggaggcttcc ttgtcaaaga 300
cgtgaacgtg ggattttcaa cgcaccacgg tgtgtccact catcactgca tgttaggaac 360
tgctgtctct ttgggacacg agttaaaaga acacactaat ttctggagtg tgcctgcagc 420
ttcacggcct tcattttgtt actaagttat tttctggaag aacagcaaaa atttcagggt 480
gaaaacagaa ctttccaagt gctactgaaa ttccgcagag aattacgctg cgatgggtggg 540
tttcttacc tagaaacatc ctaacctgta tccacagaag atgtcctttt atttttttta 600
aagatcaata aatcaagag aaacgaaaaa aaaaaaaaaa aaaaaaaaaa aaa 653

```

<210> 685

<211> 319

<212> DNA

<213> Homo sapiens

<400> 685

```

gttcagcctc agcaagcctg caccagggcg ctcattaaaa cagcatgttg ctccccactg 60
cctcgtgttg tctgttggtg cgctgtcggg gttcgaaccg atacaagaac cttccaccta 120
cctggtgctt tggcctcatc tataagcttt tccactgtcc tgaaacaaga tagaraatct 180
gagcggccag tcactgtccc taagtgtgct cgccgaagac tgaatgtcct ggaaagtttg 240
ctgtcacatc tccattatga caaaagcatt gtgccgaaca gatgaaaaaa tgcattgtca 300
acggaatctt ttatgttag 319

```

<210> 686

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

468

<222> (260)

<223> n equals a,t,g, or c

<400> 686

```

gcctgttctg gacctgtata aaaatgtcta cacagtagaa gtgacatcaa ggtttaataa 60
gtatatcaat gattggcaca tataaaaatt gttgaaccac atactctgaa cttggctaata 120
ttagttactg caggcctcca ttatccagtt ttatttttta cacgrttgac cttgccttgt 180
agctggtgct gtgtagacct gtgttgraaa cacaatcgga atatatgaat aattgaataa 240
acagcattat ggngaggcan agacacatgg agaagtgtta a 281

```

<210> 687

<211> 178

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<400> 687

```

gctggtcagt gcagcccat tctgacatta ctatgaggtc ctggatatcc attccttggg 60
gaggaccagt aagacatctg ctccatccct ggaactggat aattttggaa nataaaccag 120
ggacctagcc aacagaatgc cttagcaatg cccagggggtc aatgggctg gcattctt 178

```

<210> 688

<211> 337

<212> DNA

<213> Homo sapiens

<400> 688

```

ggtaggaggc aaagcagtggt gtctctctca ccagccgctt acgggaccct gccatgcctg 60
gacctctcta tcaggaagac ctaccccagc actactggaa aatcagccaa tcttaacca 120
aagatggcca tgatttctgt atgtgagacg tcttaaggggt gtttttgttt gttttaatca 180
gccctcttgt ttgagatttg gcaatacatt tctgttttct argttatttc tgtgtctgat 240
ggtwgargat ctaataagta ttggaatgct tcctatttgc tgatagaakt accaaatagt 300
attattgaag tctaacaag acttttgttg agaacac 337

```

<210> 689

<211> 1135

<212> DNA

<213> Homo sapiens

<400> 689

```

gccgaatagg tgtttccttc attgatgatg gaagtaatgc aacagagtaa gtaccattcc 60
aggagtgtct aaagccgagc tttgagtgt catgattgat aggacttgaa gaataaaaaat 120
agaaacaatt gacctctcag gtgagaaagt cacacaaaac aagctactgt taaaagactg 180
aatattttta gttttctgta aattatcagt tattttttcc agtctcctta gaaaaatggc 240
aacacagatg gtactgtcac agcttgcac aatgggtgtg aataacccaa gtcagcaaca 300
atztatgcaa tttggaggaa gctctggatc acagttgcct caaatccaga cagatgttgt 360
acttccatca tgcaaaaaaa aagctcctgc tgaaactcct gtgaaagaaa gactttttat 420

```

469

```

tgtgtttaat cctcatcctt tacctttaga cgtattagaa gatataattct gtcgttttgg 480
taacctgatac gaagtttacc ttgtgtcagg aaaaaatgtg gggatatgcca agtatgccga 540
tagaataagt gctaatagat ccattgccac tctacatgga aagattctga atgggggtgag 600
acttaaagtt atgctggcag attcgccaag agaagaatct aacaaacggc aaagaactta 660
ctgattcttg agtggccctg aagctgcact atgttgaggg tttccttgac taagagaacc 720
acatgcgcca ttcagctcag taggggagtc ataaaagatc tcgcctctga ccagaagagt 780
atgaatgaca aaggtgacat aaccagcaca gaaagatgtc ttagcctctg cacatcagct 840
gatttagaat acttatgtag atagcggttg gggtcggggg ggtscggaat gttcttttca 900
gcttctttgc ccygagaact ttgatcttat tgcaaggaag tcccttacct tcttctacct 960
tagatctgat ggacctcctg ggatttcctg gggaaatraa atgagtctaa cacctttgac 1020
cacctgctgg atattatata agcacttact taagtaagct gtggaagagc tgaaagcagt 1080
attcagagtc tgacagttct ctgcaattgg cctagataaa ctcattgtga aataa 1135

```

<210> 690

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<400> 690

```

aagagcgaaa ctccatctca ggaaaaaaaa aaaaaaaaaag tatattctaa cagacagatc 60
agaggtctaa gagatcctcc cttgctatta ttacctgaag tctgtagaac tgtttacaga 120
tatctccttg acaggtgtcc tttatcttac tttatctgta cagtaatcct gtgagaaaga 180
caggacagaa accactgtgc ctattttaca gatacgaaaa ctgagacaca ggtaaagggg 240
cttgctgtga gtcccatagc tagcagatgg ctggagccaa gactgaggct cgttcttcaa 300
tgctgagcca gggtccttcc gctgcaccac aagaacgcta gaccactcgc caccagcctt 360
ttcattccct cttcctccat ttaancaatt ttaagctggg tgggcctccc aaagggcttt 420
gggaaana
428

```

<210> 691

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1285)

470

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1287)

<223> n equals a,t,g, or c

<400> 691

```
aagaaatcgg ggcgtatata cctgtaacag gagacagawt tggacamcaa ggrttttaag 60
agycattgcc cattgtaaag cattaagcca gagctgggta ttcattatca gactaactac 120
atactagtcc atgctagtgt cagcctatat taaaatagtc tttccttgcc atagtgtctg 180
cgaaaaccca atcccttctg atgaaacatt gcttcttggg aagacaagct gaggaaagca 240
atgaagatcc cagtgtcggc ctttattgag ctatgtatga gggtcagggt ccctcaactc 300
ctagtgacta tgaagcagca gtgtgatggc ttgcacctct ttgccccctc gtcatacaatc 360
ctttgcatgt ggctatttta agcttctcag ctttcttttg ggaggcttca tgtgtaactt 420
attatagaaa tgttactgaa aagctgccta aacaaaaaat tgtataaagt aggaatttgt 480
ataaagtaat actgttgtaa atccatcttc aagatgtaaa gaatcaattt gtaaagtgtg 540
tatttttact tctcccttca aatttatgtg aacaagtttt tcatgtttca atattgctta 600
cataggaata caccttacgt ttttatcagt ataaatggaa catttaaaac cagtcaacaa 660
cagaacagat aatccagctc cctgtttgtg ttctggggtta attttgcaag gatgaagggc 720
tagaaaagtg tgagtttggg tgtgtttctt attttcagga taaccggctg cattgcagta 780
gaggaatgga atgggtgaggt catttgacct gttccagggt agtggaggcc aaagaacatt 840
gtttctgcct ccccttggat gggaaaattg agaaattaaa aagttgcctt tccgaggaaa 900
caaaagttaa tttctctatt taaaataaat gtccaaaggc acccctctaa acacaaaaac 960
ttttagctcc tggcaaactt acctagctag aagttggaga agagtgcggt ttcaaaccat 1020
gcttcctttc tgcccttgcc aatacgttct cactgactgt gattctgctg tgaacacaca 1080
cacacacaca caaacacaca cacaagcccc ttctgtgtat gatcaggaca agtagttcaa 1140
cagttaataa aaaagttaaa ttattggatg agaaagatat atttaaccta aatcataaat 1200
atgtawatcc atttaataaa cactaaaatt gagaaaaaaa aaaaaraaaa actcgagggg 1260
ggcccgaggg ccaattcgga nctgnan 1287
```

<210> 692

<211> 351

<212> DNA

<213> Homo sapiens

<400> 692

```
cctgtctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagccct 60
gggtgttcaa actcagtctt tcctgaagaa gaggatctga gttatcttct gaaacagcgt 120
tctcccttcc cagttgtatc actcttataa aaagactgtc cagtctatgt catgccttag 180
gagacaaact gttcctccca gccccctttg agtattgagc agaagaatca aattattaaa 240
tacgtatgtt tgtacagaat ggtatttgtg tatgtgtgtg ggcttagaga ttcacaagta 300
aatattcctt tgggtgaagga atttcaataa aaacatctat caagtgtcaa a 351
```

<210> 693

<211> 1204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

471

<222> (1010)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1080)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1201)
 <223> n equals a,t,g, or c

<400> 693

ggcaaggaca	aagaagattc	cttttctggg	agtttgtctt	gggatgcaac	tagcagtgat	60
agagtttgca	agaaactgcc	ttaacttgaa	agatgctgat	tccacagagt	ttaggccaaa	120
tgccccagtt	cctctggtga	ttgatatgcc	cgagcacaaac	cctggcaatt	tgggaggaac	180
aatgagactg	ggaataagaa	gaactgtttt	caaaactgaa	aattcaatat	taaggaaact	240
ttatggtgat	gttcctttta	tagaagaaa	acacagacat	cggttcgagg	taaaccctaa	300
cctgatcaaa	caatttgagc	agaatgactt	aagttttgta	ggtcaggatg	ttgatggaga	360
caggatggaa	atcattgaac	tggcaaatca	tccttatttt	gttgggtgcc	agttccatcc	420
tgagttttct	tctaggccga	tgaagccttc	ccctccgtat	ctggggctgt	tacttgcagc	480
aactgggaac	ctgaatgcct	acttgcaaca	gggttgcaaa	ctgtcttcca	gtgatagata	540
cagtgatgcc	agtgatgaca	gcttttcaga	gccaaggata	gctgagttgg	aaataagctg	600
aaatgaatac	atgactggga	ataatgggga	ctgcctgtga	ggcctctgaa	ataattgaag	660
gcaagatgaa	ggaactatct	gaagaaatca	ctacactctt	agagaatccc	tctgttctcc	720
agcaaacatg	ggatgtaaag	cctcacaggg	aatctgataa	tacatacttc	tgtcaaccag	780
aaccagaggg	gtagttttct	tttccctcca	gaggcagcct	ttggtactta	aaatatctgt	840
agctgattaa	atttttccca	acaacctcac	tggggagaaa	gtgtgttcat	gttttgtcca	900
gcggtatcagg	atgttaggat	gacgagcaag	agtccaggtc	actgtgcctt	tgctgtgttg	960
tatggaaagg	atggcagggg	acatgctgta	agtaattttg	agtaagaaan	tgagtcactg	1020
tgttacctgg	aactcagcca	cagattttgt	tgtggtccaa	gatcattgca	gtttctcaen	1080
ctgtttattt	cctggtaaaa	gtaaaaattga	ataggtccaa	gacttggggg	tggcaagtaa	1140
ggctttgcct	caagcacaaa	atttaagggg	gctccaaaaa	actcaggaat	ccaagggggg	1200
nggg						1204

<210> 694
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (237)
 <223> n equals a,t,g, or c

<400> 694

gccagcccag	gtcttggagg	agcacaaatct	agtgttctac	acaatggggt	tttccatggg	60
tctccaggag	agctattata	caccagaag	atccagcctt	taccagcgt	ctctcctttt	120
tctctcttgc	ttcccttccc	tatgccaagg	agtaggcaaa	gkttgacatt	tcgcacctcc	180
attgcccasc	tcattctaag	gcctttattt	aaaggtggat	aatggcacat	araaaanttt	240

472

ttctataaca ggtagcaca tttcctatgg tgctttggaa ttt

283

<210> 695

<211> 2733

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<400> 695

```

cacgagcaaa ggtgacagct tccggcaact gatgcctcca ctggccactc ctccctccgt 60
ccacctgtca cttcgggtag ctgggaggcc agttaaaaaa aatggaacct ttttctswg 120
acactttcgt ggcattacct ccagcaacag tcgataacag gattattttt ggaaaaaatt 180
cagatagact ctatgatgaa gtacaagagg tggtttattt tcttgctgta gttcatgata 240
acctgggaga acgtcttaag tgtacatata tagaaattga tcaagttcct gaaacatatg 300
ctgttgkcct gagkcgccca gctggttggt gggggcagaa atgggagcca atgagcatgg 360
agtttgcatg gggaatgaag ctgtatgggg aagagaagaa gtttgatgaat gaagaagcac 420
tattagggat nggacctgtg tcagacttng gccttngaaa gagctgatac agytgaaaaa 480
gccctcaatg tcattgtttg gacttactag aaaaatatgg ccagggtgga aattgcacag 540
agggtagaat ggtatttagc tatcacaaca gtttcttgat agctgatagg aatgaagcct 600
ggattctgga gactgcaggg aagtactggg cagcagaaaa agtacaagag ggagttcgta 660
atattttctaa tcaactttcc ataacaacca agattgcccg ggaacaccca gacatgagaa 720
actatgctaa gcggaaaggt tgggtgggatg gtaaaaagga gtttgatttt gctgcagcat 780
attcctatct tgacacagcc aagatgatga cttcatcagg cagatactgt gagggctaca 840
agcttctaaa taagcacaaa ggaaatataa cttttgaaac aatgatggaa attcttcgag 900
ataaaccaag tggcattaat atggaggagg aattcctgac cactgcaagc atggtttcta 960
ttttacctca agactccagc cttccttgca ttcacttctt tacagggact cctgatcctg 1020
agagatctgt ttttaagcct ttcataattg tgccacatat ttcacaacta ttggatacca 1080
gttcaccaac atttgaactt gaagatctag ttaaaaagaa atcacatttt aagcctgaca 1140
gaagacaccc actctaccaa aaacatcaac aggcattgga agtagtaaat aataatgagg 1200
aaaaagccaa aataatgttg gacaacatga ggaaactgga gaaagaacta ttcagagaga 1260
tggaatcaat ccttcaaaaac aagcatcttg atgtggagaa aattgttaat ctctttcctc 1320
agtgtacaaa agatgaaatt caaatttatc agtcaaattt atcagtcaaa gttagttctt 1380
agtgatcata tggtcagcta atattagttc ttagtgatca gtggtcagta atcttcaaag 1440
tcagaatcta tcaccttggg aaattatata aacctaaact gagcagatct gattattctt 1500
ggatagtatt caagtgggat cttgactatt aaactacgta tagtggtgct gaaatagaaa 1560
gaaaacagca ttggaattgg attcatgtat cgtgggatac aggtgttatt tcagggtgatg 1620
tacttgcatg attttcttta gccatagtaa ctttttgta caataactaa gtattcaatt 1680

```


473

```

atatataaag agtgaaacat taaaatgacg catggattta tatttattat aattatgtag 1740
taccctcaaa tcattttgtc agttacatca agaaagcaga tttttcttta gtcataaaaa 1800
atatctcaag tggtaagttg tttgtgcttt aggcaaacat taaccagctc taacaagaaa 1860
aatgtctaga tttacacatt gtcaatacag tatattagtt ctgcaaagtc acttttgtta 1920
aactcaaaca tgctctttgt caagacttgg ctaaccagtg agcttgtagc tctgattatc 1980
tagcattttt agggtcattc tccttaatag gcttttatgt taataagata tattttttaga 2040
agagcttggt tgggagatta gagaataaga taaaagaacc aaaaccttag gatatactgt 2100
ttctgggtct gaaatctctc tcattgttta cttctgttca ctcagtgaac acagaaacaa 2160
gaatgaggta gtggcaatga aatagaatta ttagtatatt atgaacatta taacattttg 2220
aacactataa tgcattatat attatgaact tttatgaact ttatacatga gtaatagctt 2280
cctaaagttt ataaaacatt gtttaggtta cataaagatt accaagtaag actcaaaaatt 2340
gcaaatataa acaaaagaaa aatccaactg aaaataacac taagtatttt tgagtttcta 2400
gaatgtccat tttggtattt gggtacatta tcataatttac tagtcactat cagcacaatt 2460
aggtaataa agaagtgggt catttatattc aaagagtgtc caggaagtta tgtgttcaaa 2520
gttctctcat aaataccatc gtctgcctga tactgtctct gtctaataga gggttgacat 2580
tacaaaagaa aagatgtctg actcaagaac tcagttgatt ctgtttgcct taagtttggk 2640
tcagtgatag gctgtcttct aacccttata ctctcttctc ctcctttaat agatgaggra 2700
actaagggca aacagttcgt tacacttacg gga 2733

```

<210> 696

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220> .

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

474

<222> (542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 696

```
tccctatagg gaaagctggn acgcntgcan gtaccgggtcc ggaattcccg ggtcgaccca 60
cgcgctccgct ctgaaaatga tctacagcac gatccagaag aaatgaactt tgtgggaaaa 120
gaacaaaagg ccacccaaag aggccaagct gtgatggaaa agaaaaccaa caggatgaga 180
tgaaagggga gattaacaag cwawataaga attgcaagga aatgaaatgc taggcgactt 240
acaatccttc ttggggggcag tgagagcggg gatgctggat gtgaaatcag tgacatggaa 300
ggcaaaactgg aaaccctgga tgaaagtgtg tcatgcacag aataccaaaa aagataaatc 360
cagaagacac agagccagtg ttggttttcc tgaggaagag acagcttgaa aaaagggtctg 420
tgtttgcaga ccaataacctg aaagtaaaty caaaggaaac agatccgnca ctagacacat 480
ggtggcaaaa atgtttaata accaagtgtc angggtagaa aaagaatggc cagatagaat 540
gngcgccctn ccctgncccc tctatcccaa gaagg 575
```

<210> 697

<211> 948

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (930)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (936)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (945)

<223> n equals a,t,g, or c

<220>

475

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 697

```

cacgcgtncg gtctcagaaa aaaagaaaat tcaaggccag ttaagacaaa atgctatgac 60
tttgaaattc acagaaagaa ataacagttt agattaggtc ttcaggtatt caggatagag 120
ataatctcct gaaaaaacctg aatttcagag attcttagac tggctgccaa aggatgaagc 180
tagtgaagga gaaaaagctt aaattccatc ttgagctctt ggattgtgat aatacaatga 240
tttcattaac ttttcatttc tgtataacctg ttcatttgga atttaatgct tgacttcttt 300
gttcattttg gatctaaact tctcttttct tcttcccca ttcacatcta ttagaagact 360
gcatcaccat ttctttggcc cccttactct gttgtccttt cccttttctt tcagtttttt 420
taatcgcatg tctagtatat taagtctcca tagccctcct gatgcagtag acagtgctat 480
gctgtggata taataccaac cagaaattgg catttataaa cctgttaaga gactttaagc 540
atgcttcaag aggcagttga cccactggaa tttctataag gctggtaccc ttcccagagt 600
tacagaatct trgggtgccg ctctagtctg tgaggggagga actcccagca tccccattgc 660
ccacaaatgg aatcctcact gtatccacta ggagattaga aattaagggt tcttccactac 720
ttctatggta ggggttgtctg aaattccctt tcaggctgtg ggtactggtc ttgggttcta 780
gtcataaggg gtctcttata aggagcaggc ggaggggagt acactttcat gtgatttaat 840
tttgatcctg ccctctccag ctgctccttc aaaagataca taaaagata gaaactctgg 900
gctgggcaca gtggctacac actttgggan gccaanccgg ggggnntn 948

```

<210> 698

<211> 1494

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1494)

<223> n equals a,t,g, or c

<400> 698

```

agatgggttt agcccaagag ttcgaggctg cagtaagcta tgatcgcac actgcactcc 60
agcttgagca aaagagagac cctgtctcta aaaaaaaaaa aaaaaaaaaa aaaagaaaga 120
aaactggagt gctagaacta ttttaatat gaatatgttt tttctagtaa tgtttttcac 180
ccttcttaca gatgttcgtg agcagcagtg gattgccacc aagtccagtt cccagtccaa 240
gacgattttc aagcaggaga agtcagagtc cagtcaagtg cattagaccc agtgttcttg 300
gtcctcttaa aagaaaagggt gaaatggaga cagaaagtca gccaagaga ctcttccaag 360
gcactaccaaa tatgttatct ccagatgccg cgcaactgtc tgatctcagt tcatgkctag 420
atatttttga tggcagtakt agcagcagtg gcttatcttc agaccgctg gctaaaggca 480
gcgctaccgc agagtctcca gtagcatgct ccaattcatg ctcttcgttc atcttgatgg 540
mtgatctctc acccaagtga cttaaccatt tctgattcaa cgttttaact gctgtttcct 600
acataaaatg tttagtgggg aacgcagaga actttgatcc ataagtagga ttaaagtttt 660
acagatttca cacattctga tgctattatt actctttggc atctctcttc tccaaagttc 720
aattttgtga gcctagtga cttactagta tctgggtttg ctgatctcat tttggattta 780
gtgattaaat ctcaaagtgt gatttttgat tgcttagagg aatctttttt cttagtgcct 840
caaaaaacac ctattttgag tctatacatt taagaaaggc actgatgtgt attgccttta 900
atggtccttt tccgcagcag tgatatgaca gatttgatca gaaattctct tgcttgagag 960
attttttttt gtctctgtt gactacatag tttcaaactc ctctttattt catgatgata 1020
tataaattgc ttttaattat attaaatttt tatttttctg catcagcttc aagtacatta 1080

```

476

```

ttttgtttcc ctttcctggt tgagccgctt atgccatttc tcacagaggg gaagaaatac 1140
gtagttgctt tcattactct tattgcttct ttgctgttg gggtgtgaa gtgagcattg 1200
attttagtgc tgagaatgta aacggactta caggatgctt ggattagtca tcacagggtc 1260
ttatgacttt gctaccacag ttgatataatt tctcctcaaa cctgttgccc taaggaatat 1320
ataaaatatt gttgatattt ctaggtggtg ttatcaagga gaagaaattc ctgccttgac 1380
cagatgtgtg gagcatctac aaatgaatga atagttattt acacacaaac cactgtgtac 1440
aaaagcgtcc atggagctgt cagtgtctcg agtggatta tgaggcctca ggtn 1494

```

<210> 699

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<400> 699

```

gaaagggttc aagtaaagtc aaatgatggt ttggcaacct tttctcaaaa gatwctgcat 60
tggaatacag actgtaatat taaactacta tgtgtatatt gtttctacas ttgtatacac 120
cgtartgtct ttacaggta tataagggtc atggccctar tctaattcag atttaaacta 180
gtgcttgctt tgtaactctg caagtgatca ataactctct aatactgaaa gtcmaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgntntaaan 300
gag 303

```

<210> 700

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<400> 700

```

gcaccaattc tggaatgagc ccaaactgag acgcagggga cctgagttct aggcctggct 60
ctgccgtggc ttgctgacct tggagaattg gagaagcttg tgccctgctg gaaagtggga 120
tggcagtacc cgcttcatct agtagtcggg gagatcaaga gaggtatggg acctgaagag 180
gatggcagac tgtgcagtcg ggtgcacacc ggtctccagg ttgttttcac cctcctgtct 240

```

477

```

cctcccagga gctaacgtat aaagctgagg ctccggccagg gactgtgata tacccacatc 300
cccggaacta ggtgatcgcg gtgcaggaac cagggtgtgcc ttcgcgggat ccatgccttg 360
aggcccagga acgccccgcc gccagcatgc cgtgggacgc gcggcggcct gggggtggcg 420
cggacggcgg gcccgaggcc tcgggcgcgg cgcgctcgcg agcgcagaag cagtgccgca 480
agtcgtcgtt cgccttctac caggcgggtgc gcgacctgct acccggtgtgg ctgcttggan 540
gatatgc 547

```

<210> 701

<211> 2401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2354)

<223> n equals a,t,g, or c

<400> 701

```

ctacatccag tgacctatca gggatgcttg ttattttata caagctgctt tgttatcata 60
tcagcattct cttcagccag ctccaaggca gatagtcacc cctctctctg tgtgggtggg 120
gtgggagcag gccccgtgga gggagcgggtg ctgaggacat gtccctggcg ttccgatgct 180
gtcccatcga ggacccccctg gcctcaggag gaaggagcag gcgatgcagc cccttagtgt 240
ggtcgtgttg actgacaggt ggctgatgcc tgagcgcgcc ctcttcttsc rtcttaggag 300
acaccgtggt gaagaggaag cctgcttctc tgatggcccc tctgaagcgg aaggaggagt 360
tctccttggt caaggtgtct ratgatgaat ataaagtaac aatctcgcct casctgctct 420
tggccacca gcgcttctctg tcccgaraag tggatgtatt cagcccgtg cgcctctctg 480
agaaggtcct gctgcacctg ttgaagcatc ccagtgtcaa ccaggaagtg aggtttgacg 540
agagcaaccg gctggccaca caccactacc tgtaccagcg cancagccgg tggattactt 600
cattctcate ctgcagggca gggttgaagt ggagatcggg aaagagggtc tgaagtttga 660
gaatggggcc ttacagtact atggagtgtc ggcctaact gtgccatcct cggttcacca 720
gtccccgggtg tctcgtctcc agcccatccg ccatgacctg cagcccgacc caggtgacgg 780
cacgcattca tctgcgtatt gtcccgacta caccgtgagg cgctctctga tctgcagctc 840
atcaaggtta cgcgactgca gtacctcaat gcactcctgg ctacccgagc ccagaacctg 900
ccacagtccc ctgagaacac cgacctgcag ttattccagg cagccagacc aggtcccttg 960
gtgagaagac caccacagcg gcagggtcca gccacagcag gcccggcgtc ccggtggaag 1020
gcagccctgg gcggaacca ggcgtttaaa cggstcacta ggcagcccca gatctgggga 1080
acaratgagc acgtggggag ctggagttag ctgagcagaa gttttgtgcc cgctgcccc 1140
catccccctc aggccacgtt ttagatggcc cttgtagtgt cgggtcctgg gtgtcctcag 1200
aactagacat caatgcctgg atccttcagc cggccctgcc ctcccttagg agacaggagt 1260
caccagggca cagcctccag gcccgcccca ggaaggaatg aaaggaatgc catcatctct 1320
agttcccagg gccacgcctt ccccttctcc cccggggcag ggacagtgcg gcatattcag 1380

```

478

```

attcagacct ctttgggctg agccaccttg tgagtgcagt tactgccttt gtgtggccgt 1440
gacctctatt tgtttgcttt taatttgcca acctatcgct gctggcagca ctttttgagc 1500
aagccgagag caccattttt ggctgggggt tcagatcgat ggcttgtcc atgttgcct 1560
ttctggcttc cctgatggtg tcatgtttca gcgcatgcgc cccagccttt cccatgtgcc 1620
aaaccagaag ctccactgcc cgtaggctgt ccctgtagcc ctgctccctc cctggaggct 1680
gctcttctga ttctgagagc tggcctagtgt gtgctgagggt cccctttctg cttctctgcc 1740
cacctgctga gttgccactc gcagtgttgt cagttcccggt gttctgagaa gaggtcatgc 1800
ctgggaggaa gggatcgta tgctgcacg aatcctctct ccgccgtgtg gccccagga 1860
gagtagctgc ctgttgacc tgctccacac ctccccacag cctccctgca ggtgctgtgt 1920
ggccgtgatg tgcagagagc agtgagggtg ggttcatgaa ccaggtggat cctctttaa 1980
aaaaaaaaag tttttgttat atctctaraa catttcaagt cttttccttt yttctgttc 2040
ctagctatgg ggttttagag aagtgggaac aggaaggcat ttgtcttttt cttctagttt 2100
actacatttt ccttccgtag ttcttcagct gtgtggaaac gggcatcaca aggacatagg 2160
atcatagatt gggtagggag ggaggaggat ttctggaact tttctcaaag gaatttgga 2220
ccttataaat gggactgaag gtcaaaacaa cagtgatatc cttgcttaga aattgtcctc 2280
aaggaataaa ctctgagagc aagcccgggt tggaaacaga tgctttaaaa tcctctctcc 2340
anaacagtgg tttnttggtt gtttatttga gatggagtct cactctgtca cccaagctgg 2400
a

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<210> 702

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (689)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (702)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (716)

<223> n equals a,t,g, or c

<400> 702

gcttggccta tgaaaagatt tagacaacca gacgataata gtgggaaatt tcaacactcc 60

479

```

actgacagtg ttagacagat cattgaggca gaaaactaac aaagaaatgc tggacttaaa 120
ctcagcactt aaccagttga aactaataga caaatacaga acactccacc caaaaggaat 180
gcttatacat tggttggtga aatgtaaatt agttcaggca ctgaggaaag cagtttggag 240
atcttctcaa taatttaaaa cagagctacc attccaccta gcaatcccat tattgattat 300
atatccaaag gaaactagat cattatacca aaatgcactc atatgttcat caccatgcaa 360
ttcacaaatg caaagacatg gaatcaagcg aggtgcccac caatgatgga ttggatgaag 420
aaaacatata tgctatggaa tactacacag ccctaaaaaa agaatgaaat caagttgttt 480
gcagcaacat aaatagagct gaaggccata gtcctaagta aattaatgca ggaacagaaa 540
accaaatact acatgtttct acttacaagt gggaactaaa cattgagcac acatgaacat 600
aaacatggga atgatttgac actgagcact actttgaggg gaagagagag ggangttgac 660
atgggttgaa aaaacctacc tattggggna cctatgtttg cntacctggg tncaan 716

```

<210> 703

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 703

```

gatacctaaat gcttgggacc aaagtatttt ggattttttc agatttttga atatttgcac 60
tatactttta tgagcatttc ctttgagcat catgttggtg ttctaaaagc ttcagatttt 120
ggagcatttc acatttttga ttttcagatt agggatgctc agcccgtata gggaaacttt 180
agaacattat agaaatgaac aaaaagaaaag caaacttgaa tgcagccata taggacatat 240
acttttgggtg aagtttagagt aacagtggat ttacttttcc cttgaaatga caaacaaaaa 300
aaaaaataca gaaatatgaa gcagtgggtt ncaggcgncga gagtcaatga tgaaaaacaa 360
tggcctgagc ccaatgttgg ctccagcttg agaatttcta ggttgcctat a 411

```

<210> 704

<211> 725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (698)

<223> n equals a,t,g, or c

480

<400> 704

```
ggacawtacc aggcaaatat tgcagaactg actcatgcaa acaaccgagt ggatcaaaat 60
gaagcagaag taaagaaact aagattacga gtggaagaac taaagcaggg actcaatcaa 120
aaagaagatg agcttgatga ttccctgaat cagatccgta agctccagag gtctctggat 180
gaagagaaaag aaagaaatga aaacttagag actgaactca ggcacttgca aaactggtaa 240
ttttttcaca aaatatgctg aattaaagat tagggcctta aagacatttc catatccttt 300
tcttaaatat cagtaaaatt gtttttatta actagaaata ttaatgaaaa aaacgtagac 360
aatacacaaa ttaatgggct tcttcacttc ttctaatttt tgcctaacag atactgcata 420
ttctcaaaaa gacaatttaa atgtcattta aaaacaactt taattctaag atgtgtaaat 480
attttgaaag tcaaaaaggg ctttcagaat actttttaca taaaatctga agagttataa 540
tatcggttag aaaaagtagt tgaanaccat acaagacgct gggtcattaa taagaaaacc 600
attgacttta gtataaagta ctggtttggt taaagattgg taaactttta tgtacgtggt 660
gtctatgtgg tggggatggc aggttgattt aacaaaantg aatccttcta gaggtgtacc 720
attac 725
```

<210> 705

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<400> 705

```
ggggcccaca cccaggtggg ggcccatggg gtggagacag agaggtggct ttaaaaaaca 60
cagctgtact aattcttcac tccatgggcc cacaccaggg tgggggagga ggaagccact 120
gcatctgttg gctcagggcc ccagcctgtg cgagcagggc gcctgggctg ttgtgtctcc 180
tgtctgtgcc gatctctatt aaaggactcc ctcttggtgg gcaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
angggnggcc gttttaagg atccaagntt ac 332
```

<210> 706

<211> 726

<212> DNA

<213> Homo sapiens

<400> 706

```
ggcagaggtg actgtcaaag cttgaccctt gctttgattc cctttgttga gacaggttct 60
tataggacct ggattctcac cacatcctct gttctgttta gggaacacaa aggtaagctc 120
```


481

```

agctctgtgt ccaggagtag cttatagtag tctcccttaa ctgtgtctgt ttcaacttga 180
tccaagatca ggattagtag aagcttgtaa aaaaaaaaaa aaaagtttwt tttttacaaa 240
atagaccaga tgcactttga agttaaagt catgcttaac catctgcaat tcctaagggt 300
gagctcaatg catcacatgt agtagatgtt caagaaatgt ttgttaaagt ggcagttgta 360
aacagagaca gtgccgtgtt tatttcgttt tccagaaagg cacctgactc cttgctttgc 420
acataacagg tgctcaagaa atgttgaaga aaaaagcaaa ttgctttgaa tgcagtgtat 480
cctaaaacca gatttccagg ttgccccagt actctgtaca ggcctccatt ttggctgtta 540
acacagtgtg tcttttgtaa cattaaaatg ggtccacgtt tgcattctct ccgaaattat 600
aaactcctgg gagtgcaggg atgtgtctca tacattcttc cttgactttt ccacagcata 660
ccttagcaca gagttggata tgtagtagat gttcaatgga gaattactga attttcttaa 720
aaaaaa 726

```

<210> 707

<211> 553

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (531)

<223> n equals a,t,g, or c

<400> 707

```

gggttgggcc aatgggtcag gcatccagtc agctctggct aaggggtgaa ggagtcaggt 60
gttaccacac tggtggcagg ggccaccttg aagctgtgtt ctgtgccatg gaagaaggaa 120
gaggaggagg aagctaagct ggaagggaag gctcctggag tcagtagttg gaatctcaga 180
tggaagaaaa ccttaaaagt catctgggtcc agtattttcc aaagcatgtt ccatgaactt 240
gttttccaga aatgggtttc ttgtctggtg agtgggagyt csatgagagt ggcagttgtc 300
tattttgttc accgatgtat cttangtgac taaaacaatg gttgtcacat ggctggccct 360
tcatatttgn ttccagatgg aagactctct ttctagtggg ggaacattag ttttgcactg 420
tggtgggaca acctgatgta gtgaaaacaa gcctggggcaa tgaaatcaac agattggaat 480

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482

tcaattccta attgggtcat tggatgactt tgtgaccttn ggcaaaatna nttacctttt 540
tgaatttgaa taa 553

<210> 708

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<400> 708

ggctgcaggc agcaacgcaa gtcaggctga acattcagtc tccagagaca gctgtgtgga 60
gcaaatcaga gttcatgccc aagtccccag gttggaatgg ctgtgccaaa atccattcaa 120
agggttttct ttttcattac taggtcagaa cattttgagt caccttggga gattcaggat 180
ggggagagca aatttgaaca aaagggtttt cttatatacct gagattgagg ggtaggggggt 240
gtncacactg natag 255

<210> 709

<211> 1075

<212> DNA

<213> Homo sapiens

<400> 709

ggccggcctc caggctgaag aaggaccgc cccggccttg acccgggccc cgccccctcca 60
gccggggcac cgagccccgg ccctagctgc tcgcccctac tcgcccggcac tcgcccgggt 120
cgccccgttt cgcaccagc tcacgcgcca cagctatgtg tccccgagcc gcgcggggcgc 180
ccgcgacgct actcctcgcc ctgggcgcgg tgcgtgtggc tcgggctggc gcctggggagc 240
ttacgatttt gcacaccaac gacgtgcaca gccggctgga gcagaccagc gaggactcca 300
gcaagtgcgt caacgccagc cgctgcatgg gtggcgtggc tcggctcttc accaagggttc 360
agcagatccg ccgcgccgaa cccaacgtgc tgctgctgga cgccggcgac cagtaccagg 420
gcactatctg gttcaccgtg tacaagggcg ccgaggtggc gcacttcatg aacgccctgc 480
gctacgatgc catggcactg ggaaatcatg aatttgataa tgggtgtggaa ggactgatcg 540
agccactcct caaagaggcc aaatttccaa ttctgagtg aaacattaaa gcaaagggggc 600
cactagcatc tcaaatatca ggactttatt tgccatataa agttcttctt gytggtgatg 660
aarttggtggg aatcggttga tacacttyca aagaaacccc ttttctctca aatccaggga 720
caaatttagt gtttgaagat gaaatcactg cattacaacc tgaagtagat aagttaaaaa 780
ctctaaatgt gaacaaaatt attgcaactg gacattcggg ttttgaaatg gataaaactca 840
tcgctcagaa agtgaggggt gtggacgtcg tgggtgggagg acactccaac acatttcttt 900
acacaggtaa ttgtttcaaa aggattgcat gggccaggat gtccagataa gcactgtgtc 960
tcttttgcct ttgtaactgt tattactctt tttactgcta tttaatatgt aatgtatatt 1020
atatgatcta taatatatat gtaatatata ttaaatggga acatgtgcaa atctt 1075

<210> 710

483

<211> 753
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (706)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (741)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (746)
 <223> n equals a,t,g, or c

<400> 710
 gaattcggca cgagctcgtg ccgaattcgg cagacgatac caggtgctgc agaagggatt 60
 ccatgaggtg cgcaaaggcc ctacttccgc tttcaccttg gagacggcga ctctctgcgt 120
 actgattgga acatccgcga aatgatacgc ctctctgcaa tgctattggt cgaaatgcat 180
 gtcaatctcc cagcgtcttt atccgtgttc cttgactctg ggcaacttaa aagccctaata 240
 acttttactt tcgccacaca aagaggttct tcttagtgga gggagagcag atgtagggca 300
 tcctaccgag aatttccgga accacgtgcg agatgatgcc agtcatgaac gtctccgcgc 360
 ttcttttcgc tttggaaata tccttaagta gaaaagaaat tttctgagct ttgcctaaaa 420
 ctagaatctg tgttgaggtt tttcaaaatt aagtaacgcc agagacatac tgtgacgtga 480
 ggaaacgctc ttaaatgaaa ttttaagatc tatttgagaa acatgtacta aaaatgtact 540
 gacctcctat taatgccagg cgctatgctg aattctgggc cttcacattg tccttccatt 600
 attagaactg aagcccagat tatttgaaac aaaaaataaa cttcaataat ttattaaaaa 660
 aaaaaaaaaa aaamctcgag ggggggcccg gtaccaaat cgcccnaaag ggaggcggat 720
 taaaattccc tgggccggcg ntttanaaag gcg 753

<210> 711
 <211> 779
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (721)
 <223> n equals a,t,g, or c

<400> 711
 aaattaaccc tcactaaagg gaacaaaagc tgggagctcc accgcggtga cgaccgctct 60
 agaactagtg gatcccccg gctgcaggaa ttcggcacga ggaacagctc aactggctg 120
 gcactgctaa gcaggtgcgg aggggagtc gagacccccg gatggagggg tgtggtggac 180
 ctacgttttg aggccgagag tcctctggcg ccmcccacag agctcctgga gagactgccc 240
 agctatgact ggcttcttca agggggcaga ggacagatat tcttcccacc tttggaggcc 300
 ccaggagggc cccaggagca aaggctcctg ccctcgttcc tggaacacag gagatgccct 360

484

```

ccccagttgg actgctgagg gctttaccac taccgtggcc tcagtttctc gcctgcacgt 420
tgaggaggct ggctggcccc cgtragtcca caggcccttc ccagaagccc ccgcctctct 480
gttcggtccc ctgcagagtc cctgcgaatg acggaggagg tggcccgga aagccctcct 540
cagctttgtg gactstaagt gcctgctaca gccaakktgg actggagacc tcgtcatcca 600
ggagctgaag cggcagaccc tctgcaggta ccgtctggag accttttagtg aatccaggat 660
aagcgaagtg gacatttcaa ccctttacta aaccactctg tggaatgggc cgcaaagagg 720
ngcctcccc agggctcttg gacatcaagg tttcaaggct cttccgatgt ttttcagga 779

```

<210> 712

<211> 570

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 712

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ccctcactaa gggaacaaaa gctggagctc caccgcggtg gcggccgctc tagaactagt 60
ggatcccccg ggctgcagga attcggcacg aggagccact gtgcccggcc tgccttggtt 120
attttcataa gatttctaga attaggttca ctgagttaag tgatataaac atttttgagg 180
cttttgctac atattttttag attgctctac aggagtggtc tagtttatac acccctacca 240
ggtcgccatg tatgtttcta cacaatagcc ctgctcgcaa cagatagtat attttncnct 300
gttgcccagg ctggagtgcg gtggcgcaat ctttcttggc tcaactgcagc ttgaaatctc 360
aggctcacaa gtgatccttc cgccctcagcc tcccaagtaa ctgggactgc aggcattgcac 420
caccatgcct ggctaatttt tttttttttt tgtagagatg ggtttttgag accagcctgg 480
gcaacatggc aaaactccgt ctttactaat aataccaaaa ttagctggga tagtggtatg 540
tgctgtaaa tccagctac ttgggaggct 570

```

<210> 713

<211> 877

<212> DNA

<213> Homo sapiens

<400> 713

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gccttttact gtagaccctc tccagagaaa ggagctcggg tcttccctga gccaaagggtgc 60
cagggtccca gaactccttt cactgcagac cctctccaga gactggggag agggctctgg 120
agaacctggt tcttgcttac tgttctccct ttgggcccct cttcccaaac gcaaacaatc 180
caggatccac tcagcgtcag gcccaatgga aatagtgaag cagtgatatt ccctcccctg 240
cctctccata gcctggtctt ttgcccctct ctttgcctct ctcttcccc atagccacct 300
caaatacctg cagcctgata tcttcacccc ttcacccaga ccttttctct cctagtggta 360
ttgcaaaact aaagtggaca aagacttaag gttaaactgc tcctcatggg ggaatgcttc 420
caaatgctgg aaggaggact ttagggcaga gttcactaag gaggcttggt cttatagatc 480
agtgggcctg aaagaagttt ctctaggttc tggttggtg ctgtacgarg tgtaggtagt 540
aataatactc ttgtcagcca cagtgaagcc ccaagctagc cgggataggg gactgacctt 600

```

485

```

gtacaggcag catggagaaa ctaagacaga gtgtcctgcc caagtgatgg cactggggag 660
cagtcactca ggtttatttc caccagggcc caagaaaaaa agaaatgagg caacctaaaa 720
ttccatcaag atagatacca atatccaagg tgcttgggtct tagcgggtgtg ggacccacgt 780
taaggctctt ggtgggaagg tgggaggtgt tttcagcatg agatagggtt caggctgtga 840
atcagagtct agagcctaag ataaaaaaaa atgtgcc 877

```

<210> 714

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (644)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<400> 714

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gtgttggtgcc tgttaaaaaat tcagagccct gaactccatc ctggtataaa gcaaaaaataa 60
aattttaatc cccttgacca tcccaatggc cccttctctt ggcaagggca ttccaaagtt 120
aaatggaaaa actagtttta gaccatgatg ggaagggggg gtggaactc cttccttttg 180
gaattactga tagaacagac tttttaagtc tgataagaaa catttacaat ctattctcaa 240
agtctgctac caggaggctt cacctgcatg ataaaacctt ggtctccaca actccttate 300
ttaaccaga cagtcctaag tttttagaca ataacctaac tgkttcaatc catgccaatc 360
aataagtctt taaatctgcc tatgacttgg aggccttcc ttycaagtag ttgkcctgcc 420
tttctggacc aaacgaatgt acatcctatg tgtatctgat agatgtctca tgtctcctaa 480
aatctgtaaa actaanctgt cccaaccac tttgggcaca tgttctarga ctyctgaagg 540

```

486

tgtgtacaag gccgtggnc cttatattgg cttaaaataa tctcttcaaa tntttaaaaa 600
 aaaaaaaaaa agggcggcgn tttaaaggat ccaacttacg tacnctgca ttcnaa 656

<210> 715
 <211> 1530
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (25)
 <223> n equals a,t,g, or c

<400> 715
 ncctcactaa nggaacaaag ctgngctcc accgcggtgg cggccgctct agaactagtg 60
 gatcccccg gctgcaggaa ttcggcamga cgcggtccgg gtcgccccta gctgtttcct 120
 actcacccaa agccccgcac ccgccttttc tctctctcct ctggcaggat gaggcgtgca 180
 ggccctgggtg aaggagtacc tcctggcaac tatgggaact atggctatgc taatagtggg 240
 tatagtgcct gtgaagaaga aaatgagagg ctactgaaa gtctgagaag caaagtaact 300
 gctataaaat ctctttccat tgaaataggc catgaagtta aaaccagaa taaattatta 360
 gctgaaatgg attcacaatt tgattccaca actggatttc taggtaaaac tatgggcaaa 420
 ctgaagattt tatccagagg gagccaaaca aagctgctgt gctatatgat gctgttttct 480
 ttatttgtct tttttatcat ttattggatt attaaactga ggtgatgcat gtaatttgtg 540
 atttggaatt tgttccaact taatggcttg cagtaccact ttgataaaaa tcagcatcaa 600
 aacattccta gtgttcaaat actgtggcat tttccattga aaattgctga attttgctta 660
 ttttataaat cacattagtt aatacagtggt tctttgaata ctgtttctta atgactcatt 720
 ttagccccta ttttcagggg tagtgagagg gtgtggctcc actaatttcc agtttgtttt 780
 tctattgttt gccaaactgtc agattaaata gcattataat attttgttgt aatcataaat 840
 gcaggtttat gtcccatgta aggaaactta gtgggagagt aacagaatgc ctggagagcc 900
 tgactctgag ctcttgaagt agtcagccag tttgtggtta aatggtaatt gaattttcct 960
 aactgcatca actgtaatga tatactccct tctcctcctt tatttagtta aaattgtagg 1020
 ctgatttctt ttacctaca atcttcctaa taatttttga tgataatgac ccctcatttc 1080
 tttctgcca aagacctcat tctttaaata aaacttggtta ttttggcata tttctggtag 1140
 ggccattgc acatgtgtat cagtatagtt attatttcat attaaactta tgaattctct 1200
 tgacttggtt tataatagtt ttatgatttt tactacatag gtagcacatt tatcatttgt 1260
 gacagaataa tgtgaagtta agtaattact gaactttaaa tggaaatagt atgcaagaaa 1320
 ctcaggcatt gaacttgaag ataagagtat tattgcttta atccagtgt tttgtttatg 1380
 gaaagaaaaa cacaaaggca gactgttgag taaaaaatat taaatattgt taaatattct 1440
 gtattttgga atttatccat ttataggctt caaaagtaaa tttttaaata aaatatatta 1500
 gtcgactgtg aaaaaaaaaa aaaaaaaaaa 1530

487

<210> 716
 <211> 742
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (709)
 <223> n equals a,t,g, or c

<400> 716
 tggctccaaa aggggaattgg gccttaagcc aagaatccgc cagaggggggt aatcaactct 60
 gttactttctc cccctgccag tcagaccggc cttcgggtgag aagggtgcgtc tagaactgag 120
 gcgtgcggcc aatccgactg ttccgtttcg ctgectcgtg ctaccctac agcctcgaac 180
 actgacattt aaaagggtaa cagctgggag gcaggggaagg ggcagccgca cactttcggg 240
 gtgcctcgcg gtcccgtggc cggtcggggc ctccctggctc acgttccagc ttgcggagct 300
 ttgggacaca tctttcctag tcagttgcgc tcgttcctat ggcaaaagag aacttcagct 360
 tcggtttttcc agctcccaaa cagttaagtg acttcctgca aacgctacag tcccagcaac 420
 cagccttcca atcaaaaagta agttggttga tgtcactggc attggctcgg ccaatcacao 480
 gggcggttccg aaagcaagcg ctcgacactt gtaaacgcga agagctgtag tgaaactgga 540
 cacatctttg tatttttgtt tgctggtagt aaatttgagt tatggatgag aggacagggg 600
 tgatgaataa atgcagtgtg aatctataat taaaaaaacc ccattatgtc aggataagtc 660
 caagaataaaa cacaaatgag taagaaaaaa aaaaaaaaaa aaaaaaana aaaaaaaaaa 720
 aatgaaaaaa aaaaaaaaaa ag 742

<210> 717
 <211> 820
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (23)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (41)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (802)
 <223> n equals a,t,g, or c

<400> 717
 ctactaagg gaacaaagct ggngctccac cgcggtggcg nccgctctag aactagtgga 60
 tccccgggc tgcaggaatt cggcagcagc ccaatacagg catgaaccac tgcaccacc 120
 tacttagata tttcatgtgc tatagacatt agagagattt ttcatttttc catgacattt 180
 ttctctctcg caaatggctt agctacttgt gtttttccct tttggggcaa gacagactca 240
 ttaaatattc tgtacatttt ttctttatca aggagatata tcagtgttgt ctcatagaac 300

488

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tgccctggatt ccatttatgt tttttctgat tccatcctgt gtcccccttca tccttgactc 360
ctttgggtatt tcaactgaatt tcaaacattt gtcagagaag aaaaaagtga ggactcagga 420
aaaataaata aataaaaagaa cagccttttc ccttagtatt aacagaaatg tttctgtgtc 480
attaaccatc tttaatcaat gtgacatgtt gctctttggc tgaaattctt caacttgga 540
atgacacaga cccacagaag gtgttcaaac acaacctact ctgcaaacct tggtaaagga 600
accagtcagc tggccagatt tcctcactac ctgccatgca tacatgctgc gcatgttttc 660
ttcattcgta tgttagtaaa gttttgggta ttatatattt aacatgtgga agaaaacaag 720
acatgaaaag agtgggtgaca aatcaagaat aaacactggg tgtagtcagt tttgtttgtt 780
gaaaaaaaaa aaaaaaaaaa anctcggggg gggccccgga 820

```

<210> 718

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<400> 718

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gcataacttaa aaagtacaaa agtccagttc tccaggtaca tgggcaattg tatttgttta 60
tagtttagat tcataacctt tactgaatgt cagaaacaca aaaacttatr raaataaaat 120
atatttgctc ttgagataca tataatttat tttaaagtcaa taatacattt ttagttaaaag 180
gtgtatttat gatcagttta ttgtacttgt gctataattt tctttattat taaataaaat 240
tttgagacac ttttaaaata ataaaaacca aaaagtggta ttttaaaact agtttctaaa 300
tgatgattga ctaaagtngt gtgtgtgtat gcagacatac gtaaatacac acatacatat 360
aggctatgat gatgacaact atttacttca aattagatgc cttctgtatg tatattgacc 420
agaatacatt gctcaagtga tttttaaata tttgtataat ttt 463

```

<210> 719

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<400> 719

489

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tttactagtg tattatcttt tatttattat gtaaagcttc tttccttcct tttccccaat 60
catgatata tagtgacaaa atattacaga accggactat cagtcactta aaaaaacagt 120
ataattctaa tgctagtaaa catgtaattt aannnagttc tggaggacag ttgtctttga 180
ttaaagcccc accaaaaccc atttaagtat ttaatgtaca tactattcat attattatgg 240
cctgtaaaca ctaatatctg agcaatcaaa ctgtttttatc taccattttt gatgaaattt 300
gaataaaagt taaaaacgtg taagcctttg aacaaatgta tgaaagcttt aaaagatcat 360
tagcactttt attttgttta caaataagct gccattttaa aaaataaaac ctcactactt 420
gaacataaag ctcccaaaca atattgtatt aaaatgtact atattgacct aggaggatat 480
aggaaattat attcacctga ttaactggag cagtttcaca tagtggaat actttttgct 540

```

<210> 720

<211> 837

<212> DNA

<213> Homo sapiens

<400> 720

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gcggccgcct gcggactgga gacccgggag gacggacgcg gacgcgggct gctcgtcttt 60
tacggccctt caacgccac cagcacccac tctctttgga gaccccgggc gacggtgggg 120
ctcttgggca ttctgagact gcgcttggtg gagaccccg ggcacggtgg agctcttggg 180
cattctgaga ctgcgcttgg tggagcccc tactggccag actggatttc tcagcctgcg 240
actcagcccc aggtacacg aaagaagcca gacctgggta attcttctag ttcttttttt 300
tttttttttt taattgcact gggaaacttc cccaatctcg gcccagttc tttctccaaa 360
ctaaggagtc atggcctttc gcccgctagt ccagtatgca cccgtaggcg cttcattttc 420
tctcctcttg tcagctttta ctgcctcctg aggccttctg cttgttcaca ctgagtgtcc 480
agtccctcca aatccggcta cactctactg gcaaggagca cctgggcat gtttagaga 540
tcatccgagg actaaccaca aaagtattat aagagaaagc agaggccgag stgaagagat 600
rgacccgggt cacaccagg taaaggcagg atctaaactg aaactggtgt cagatctggt 660
tgccttgcac cctgatatac aggtgaagca acmctgggca ggatagagca gagtgaggtc 720
agagtgtgaa gatccagcct gatgcccaca ctgacgccty ttcattctcc cskgctccat 780
ctgtaaacgt cmcggttaat ccactctact tattgcatta tatagagaaa taaatga 837

```

<210> 721

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<400> 721

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gttttctgct attaagttga gctgtttcaa gatagaatac cggattaggt tttgagttac 60
agtagtcctt ccttatctgt ggggtgtaag acctacagtg gatgcctgaa agagccaaga 120
gtattgaagc cttgtttttt cctatacata cgcaactgtg ataaagttaa atttataaat 180
taggcacagt aagattaaca gcaataatga gaacatttat aactagtaag ttttgtgaat 240

```

490

```

gtggtctgaa aatactgtac tgtgggaaag tgaagccatg gtaagggagg attactgtat 300
atcttcattt tgggtcttaag ctttagaatt atgggtaact aagaagccgt ttgagatgg 360
tatattccat gactaaactt acctgggaat tgtattattt acggggaagg cagytatttt 420
aaaaatgctt gtttaaggaa gcagttgctg tatttgaatt aagataactt tcattagaga 480
ttattagtga aggttggcca tctggttggc tatgtgctta tagaattata gaagtaagct 540
atttgttgac aatttttagag ttaaatttga caatcttggg tacctaccaa actttaaaat 600
agaagtcagg atttctgtta cccaaccatg ggagcyttgg ktgtcycata ttcggtaaga 660
taatctctgk taaatagtgg ggtattagaa caaatggact taagtaaaaa tcttcaaatt 720
atctttaaaa aaaaanan                                     738

```

<210> 722

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 722

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acaagtagct gcagtagcgt acggaattac agggtagacc caagcgtacg taaaatttaa 60
aaacaaagga ctatttaaaa atacagttta ttaacaaacg tgaactactt tctgttacat 120
taggtgttcc ctagtgtttc ttaatttctt tttagaaagt gtatttttat tagtattttt 180
ccggtgaaca gaagatttgt ttggatttaa acatttacta agacagtacc tattaggaaa 240
accaaataatt gcaaatgggc aattcgattt taatttctca aaagatactc tgttatccag 300
aagattaaaa tgcctacatt gagtgcttaa aaaaaaaaaa acmactgtga tratktgagc 360
agaatggcca gtaagttaaag cttttttgga tcenggtaat ccagggtatc catttaccat 420
ggaaagggga ttccccaac tactggccca gaggggaagt tgggtttttt aaatttaagg 480
nggggaaatt ttanccctat aaaatt                                     506

```

<210> 723

<211> 540

<212> DNA

<213> Homo sapiens

491

<400> 723

```

taaggggatt ctcccagctg ctaaatttaa acagtaaata tcacattttg tcattaacac 60
agctataact tgccgtgggt ctcagattta ttttggacta ttttgatgcc aagtgaatat 120
aagagyttgt actgaaacca tttatttctt tctattttgc tatttgcaaa tgcttggtat 180
cttccctaca tgaagtggca gtaacctttt tcacatttaa gctacccttc tacttttgaa 240
gtgatttgca gttactcatc tgagacagca tcagtatttg actaaatcat tgtttcacaa 300
ctgaatagtc ttgttctttt agtagcaatg aaatcctaag ctcttgaggc cattcacctg 360
ccaacctgac catactgctt tcaaaagtct tttctcatca gtagaatcta ttttggtcac 420
ttctagtcaa tgaaaaatgt aaacttttag gagagaatgt ttctaggac tcaccactc 480
cattcaatgt tacatataaa atagtgtgat caatcacaat gtccatcttt aaacagttgg 540

```

<210> 724

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<400> 724

```

cccacgcgtc cggacccacg cgtccgccct gctctcctaa gataaccag aaaggagtgg 60
tcatatactt tggaggatag ccatatagat acttatcagt ggctgtgat tctttcctcc 120
agccccattc ttcctagatg attggaaaaa cacttaaggg agcattaaga ggctctgatt 180
gctactcagt gatatacgtc agtctgagag gacagggcct aggtaaaaaa gacttgtaac 240
gatgattcac aatgaccctt actgtcactt catgtaagta tagagggctc aggtatacca 300
ggctggcaac tgatggataa acggcattat gctaaaatac aattttggat ttcataattaa 360
agtatctcta gaataccag gaatacctta aaaggaagga atggcttcct gaacaaggnt 420
ggggaacctc ctccttaatt tgttttagt 448

```

<210> 725

<211> 1221

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

492

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 725

```

tattnctagg atatacccn antaaagga caaaagctgg agtcaccgag gtggcgcccg 60
ctctagaact agtggatccc ccgggctgca ggaattggca cgagccgaaa gggacacaat 120
gtggcatgac taagtacttg ctctctgaga gcacagcggt tacatatTTA cctgtattta 180
agattttttgt aaaaagctac aaaaaactgc agtttgatca aatttgggta tatgcagtat 240
gctacccaca gcgtcatttt gaatcatcat gtgacgcttt caacaacggt cttagtTTac 300
ttatacctct ctcaaattct atttggtaca gtcagaatag ttattctcta agaggaaact 360
agtgtttgtt aaaaacaaaa ataaaaacaa aaccacacaa ggagaaccca attttgtttc 420
aacaattttt gatcaatgta tatgaagctc ttgataggac ttctttaagc atgacgggaa 480
aaccacacac gttccctaatt caggaaaaaa aaaaaaaaaa aaagtaagac acaacaaac 540
catttttttt ctcttttttt ggagttgggg gcccgaggag aaggggacaag acttttaaaa 600
gacttgtagg ccaacttcaa gaattaatat ttatgtctct gttattgtta gttttaagcc 660
ttaaggtaga aggcacatag aaataacatc tcatctttct gctgaccatt ttagtgaggt 720
tggtccaaag acattcaggt ctctacctcc agccctgcaa aaatattgga cctagcacag 780
aggaatcagg aaaatttaatt tcagaaactc catttgattt ttcttttgct gtgtcttttt 840
gagactgtaa tatggtacac tgcctcttaa gggacatcct cattttatct cacctttttg 900
ggggtgagag ctctagttca tttaactgta ctctgcacaa tagctaggat gactaagaga 960
acattgcttc aagaaactgg tggatttgga ttccaaaaat atgaaataag gaaaaaaatg 1020
tttttatttg tatgaattaa aagatccatg ttgaacattt gcaaataattt attaataaac 1080
agatgtggtg ataaacccaa aacaaatgac aggtscattt ttccactaa acacagacac 1140
atgaaatgaa agtttagcta gccactatt tgttgtaa at tgaaaacgaa gtgtgataaa 1200
ataaatatgt agaaatcaaa a

```

<210> 726

<211> 220

<212> DNA

<213> Homo sapiens

<400> 726

```

tgtctgtatt tatttcttct ccaaggaaac agcctacatt ttccatgtgt ccatgtttct 60
gaggccgtgg gtgacagtgg gaattgcact aatgggggcc caccaggcct gggggctggt 120
cttagcgcta gaccttgaac aaggcacttc acctgctggt ctccaatttt ctctctgtw 180
aaatgaaaga kttgaactaa gtgatctcaa aagtttccaa

```

<210> 727

<211> 894

<212> DNA

<213> Homo sapiens

<400> 727

```

aattcggcac gagaggaaat ggcgtcgtgg cattgagggg catccctcct agaacctcca 60
ggaaaagctc gcggaagacg aggttctgag gagagagagg ctccaagcag tctgggaagt 120
gtagtccagt tggcttagca gtatgttcgt tgggggggag ccgagggtcc gggaaggggc 180
taggccggct tgaaaagaga ttatgactgt accttttaac tytgtagctg gaacacaaga 240
agtgtttgtt taatgaatga cgtacacatt taagatctgt ttggacgcgg aggataatcc 300
tgtgaattgc taatagttca ctgggtttgg cccttagtgt tgacttcagt atgctgagac 360

```

493

```

ggaaaccaac acgcctagag ctaaagcttg atgacattga agagtttgag aacattcgaa 420
aggacctgga gacccgtaag aaacagaagg aagatgtgga agttgttaga ggcagtgatg 480
gagaaggagc cattgggctt agcagtgatc ccaagagccg ggaacaaatg atcaatgatc 540
ggattgggta taaaccccaa cccaagccca ataatcggtc atctcaattt ggaagtcttg 600
aatttttagag atggattatc ttgcatgcc aagcgcctgga atggaataaa atgatggcag 660
aagtacaaac cagattttaga gaattgagtg cttgcagtca agcagaatgt acctcctgca 720
gagacaaatc ttctgcatga gattactgat gcttcacttg cactctaagc tggaatccaa 780
actctgggtt gtctcttgaa aatttgactc tataaaactg atctgatttt ctgtttttta 840
aaataaatat attttttgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa      894

```

<210> 728

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (753)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<400> 728

```

gtgctcttgc tccagaaaga ctcaactgctc acagctgccc agctgaaagc caaggggggag 60
ctgagctttg aacaggacca gctggtggct gggggccagc tgggcgagct gcacaacggg 120
acacagtatc gtgaggtccg ccagttctgc tggggctctg gccaccacct tgtgcgcttc 180
tacttcctca ctctgtttta ctccgagtag cttgaggatg ttctggaaga gctgacatat 240
ggacctgccc cggacctggt gatcatcaac tctgcctctc gggatctctc cagatatggt 300
cgctgctcaa tggagagcta ccgggagaaac ctggagcggg tgtttgtgcg catggaccaa 360
gtattgccag actcctgect gctggtgtgg aacatggcga tgccctcggg ggaacgtatc 420
actggggggt tctcctgcc agagctccag cccctggcag gctccctgcg gcgggatgtg 480
gttgaaggga acttctacag tgctacgctg gccggggacc actgctttga tgccttagac 540
ctccactttc acttccggca tgcagtacag caccgtcatc gggatggtgt cactggggac 600
cagcatgcac accgccacct ctacacctg cttctgacct atgtggctga cgctggggc 660
gtggagctgc ccaagcgtgg ctatccccct ggtgagccct accataagtg ggggggtagt 720
gatgactggt ggccctcaga ggacagggct canaaacaga atgggacaca gccactcaag 780
ggaagtanag gtcctttgaa ggactcctgt ggcttctgca tgcaccttnc tnaaccctg 840
aga      843

```

494

<210> 729
 <211> 752
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (696)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (708)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (728)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (746)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (751)
 <223> n equals a,t,g, or c

<400> 729
 caatgaacag acattttata tcaactgtaga tacaaaatat taaagcagtg gtttcagcca 60
 attaaatcaa tctgtgagag tggagccag gcctgccatt tttgttaaaa gctccccagg 120
 tagttcta atgagccaaa gttgagaagc aaaagtattg taaattattt ctctcaaatt 180
 tagagttatt acagtttata tcaaattcaa aatgcttaat ttgcttttgt gataaagagc 240
 aatagaaggt ggtgagattt ctaaaaatta ggcctccagg tatgcatttc aaatgtagac 300
 ttcttaaatg atcgggatca gmttggtgctg cctargtagt ctgttttttt ttttaatgtc 360
 atttacataa tcattttcca tttcctaagc acaaataag ttaacatctg agttagcttt 420
 tgaaagacac ctttttgtgg ggtarggact actgttatac atcataaact garggttatg 480
 acatttctct atacttactc caagatgcag aaactgcttt tcacatagtt ttactcatat 540
 tttaacaatg gattaaggga ggctaaggta gtttaatttc atatatgtac attttttacc 600
 taaaaatatc tgattaaagg tattatttaa taataattaa aatccgtggg cacagttttg 660
 aaccttcttt aacttttcag tttaagctgg gcccantgcc ttccaaantg ctgggattca 720
 ggcattgancc actggttctg gccggnctac nt 752

<210> 730
 <211> 1493
 <212> DNA
 <213> Homo sapiens

495

<220>
<221> misc feature
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (971)
<223> n equals a,t,g, or c

<400> 730
ccctccctcc ctccctcact gcttccctcc ctctctctcc ctctcccttt cttttctaca 60
ttgaaatctg ttcttacata atagagaaca gggctattga ataaagaccc aatcctacca 120
gatctttagt tctaaagggc aacttgactg tgagtaggag ggcccccaag aaaggragga 180
aagtccacac ccagctaacc acacaacagg gcttcattat ggaaatattt taacaaaagt 240
acatgttatt accaaccaaa gagatgcatg tgcaatagaa gccttcctta aaaacaggct 300
aaataacctc attttatgca gcagtttaat ctgagaacag agggaaaggt gtgcagtggg 360
tccagagggg ccttatattc tatttttagt ctagatattt tttgtttata aattcccaag 420
gaattgttaa cactttgggtg acacctaata gattcttttt gaaattccaa ggtgcttcag 480
ttctttgccc aagtgaactg tgccttttat tgcatttctg ttcgtctctt ggtggctctt 540
ctgacttttt ggagaatacc catcttggtg gaggcagact taagttgtta tgctgtgcca 600
cacaatttac tgagacaatc atatcttcct aagcatttaa ggaaagttga aaaaaataga 660
attagctata aaatatgtat ggcacatctt gtttaatttt gcatgtaact tctcttttgt 720
acattgatga ggtttttagtg acattgtcat ccaacacttt acctttattg ttcagggaat 780
gccttcgtga ttttttgtac tggttttatt attcagacta tggcctggat ttgagtatat 840
tgttattacc acctggtttt ttaattattc atcccagtaa acttatattt tgtgaagcat 900
ttgtttctca gattaagaca ctgtagaac ctaaagtagt agctgatggg tatctgtgaa 960
ttttttnttt nttttttttt ttacttgaag tagattgtct gaataggcat cctcatctat 1020
atttacccaa aacctcgctt actgtcatgt gcactacaaa ttgcaatttg gaaacctact 1080
gtattgaaat tctgtcagtt tatggttctt gaagactgat gtcctttccc aaacactggg 1140
tactgcagca gcatttttaa tgtgtaagtg aagaaaaaag gccactaagg ccaaagattt 1200
tttaagaatc attgtacaaa tcattatgtt aaactatcta agctttgctg taatactgtt 1260
ttctcttcaa tatgtgatgg tacaggaagg atgttaaata aaggggtggg attgcaggag 1320
agcattttta atggcagaag taaaaagtta taatatttat aattttgatg ggtttaagtt 1380
tatttttgta gggaagattt ttctccccta aaatagtttc tagaatggca aaattgtttc 1440
cattattaaa aattgaagtt attagttaaa aaaaaaaaaa aaaaraaaaa aaa 1493

<210> 731
<211> 1057
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1056)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1057)
<223> n equals a,t,g, or c

496

<400> 731

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gaaattatta aaaatttcaa ggtggtggtc atagagcatt aaaccaaata tgaggccatt 60
cccaacttgt tttccgaggg gaaaatggta atacttggtt ggcacccggg gttaaacagc 120
agagggtcca tgtggccaga ggcagagatt agtatcctgg cactccagtg acccactggg 180
tgactcactg atgccacagc acccgctagg aagctctgct gaaccttagt atttggtcct 240
aaattttatg actccatgga gttcccgtag tccatggcta gttaggaaga aaggagggtg 300
gataagggtc aggcccaggt gaccctaag aaccaggaga tgggtaaaag ttttttttta 360
tattctgctt ttctgatctg tgagtacctg tttgtctcca ggccaaacct ttgggcttaa 420
atatcttttt cctagacagg tttttgctag tgttgaattt tcttcttcct ctggcctcct 480
tctgtgcccc tttccccaag cccaagactg ctttaacttc aaagcaaatt ctagatagac 540
actgtattta ttggtatggg agtgggctct atggggtggg ctgcacccat ctgggactct 600
tttccctaaa tcctgcacca aatgagtcag gaggcagggt gcacagcatt agtttcaatg 660
tggttatgca tcataagctt aacatcagaa tgaaaatgaa actcgatttt gatgtttctt 720
taaaaccctt cccctgtcca atccactcgc cgccccacc ttgaatagct aaagtctctt 780
atgaaacaga gaagagttgt tgacgtctaa ctcttccat taaattaata agtactgacc 840
tcctaataat taagtgttta ctatctattg ctgtaaagtt ttgtatatatt tgtaaacctt 900
tttcccaaaa tagtagatgt ctaaaatcat tgtacatctg attcttttat attccattgt 960
tcagcacaaa gtgtgggttt tatttagaat aaaaaagaa atttgaaatg aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaann 1057

```

<210> 732

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 732

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tnattatgag ctgtgtaacc ttggatacag tttcctcatc tataaagttg tgggtgggaga 60
atggctgaga acagtgatct ctgagctctc cagctgtaaa gatgttaatt atgattttta 120
ctctcaagat caggccacat aaggaaacag ggaattccag ggggtgggaca cagctggggg 180
agtccagacc agggcaggga aaggagactc acaagccaaa cagagctgct ttggggaaag 240
ttcttatcag ctggtgctgc ttctgagcc atatgccat tectcaagct gtaccctttt 300
cttggtctat taggatgagt ttctcctagg cccttgtag gagtggctat tggattctaa 360
gcggttgggg catgaggagg gatattttta agggaagtat agctgatttt aaaagaacct 420
atacattcaa gaacaaataa aaaacagcac ttttctttac caaaaaaaaa aaaaaaaaaa 479

```

<210> 733

<211> 1519

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

497

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (26)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (27)
 <223> n equals a,t,g, or c

<400> 733
 gntccccgaa tctccctgna cctcgnggaa cccaacccca acctgggaac ctccccaaaa 60
 gtgctgggga ttaaccaggc gtggagccca accacgcccc ggccctcttt tttttaagc 120
 tgccaatctt tttggaagga atattcttac ctctactttg tcaccttcta ctggctcctt 180
 aactaaaatc tgccatttgg ctctctgggt aacagtcctt tcctgtaaag tctaaaatct 240
 taattctaaa tccacagttt aattcacaag ctagtacttg actttttttc tgtatttgac 300
 atttttgaca acccctactt taaagattta ttccttgac ttcttacatt ttgctcactc 360
 ctgaaccacc ccccactttt tggcctcttc atttattcct taaatgttat tcctcagacc 420
 tccatttttt ttttctctct taatcacaac accacttctc acgcttgggt aattttaatt 480
 cagcagttcc taaatcctta tctttagcca gactcctcaa tccatctgcc tgttgactt 540
 ttcttgggtg tcccagagac acctgtgtgt gtcttaaaac attcattctc tgcaaacct 600
 actctaagtc ctgtgtccct tactttgggt aattttagaa ccattatatt ctaagttttc 660
 taggctcatt cctctcctcc accttccctt atcatttagt gtctaagttt tactgatttt 720
 atctccacct ctctgataca tcaactcttc atcttcattg ctattattaa taaataccta 780
 cagtactaac ctgcctccta tacctagctg gtctcctctc tgttgctcaa tgttaccaca 840
 gcaggctttc tagaagcact ctgacagtgt tactccctaa tatccttcag tgacttcagg 900
 aactttcagg agaaagccaa actcctctgt ttggtgtaca aggtcttctg atgtgtttcc 960
 tccaccgaat gttctgggtg aacagactta cacttcttca gaagccacat ttggccaggc 1020
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 tggaaaatct ctatgcatct tgcaggcctg acataagcat ttcctctgtg aaacctcctt 1140
 tgctccactc aaggagagtc atctaacttc cactttcgtg tcaccactgt aattacaacc 1200
 tactcttatt gtatgtcact taaatcgtac tgtattgttt tatttttcaa aagtctttac 1260
 tagaatgtga gctccttaag ggcaggaaaa ggaacctttt tattttttgc atctccatag 1320
 catagttttt ggcatatgaa tgtttaataa atgtttgttg aataaattga ttttaagtgt 1380
 acatctttat tatattagag gtccctaccta tattccaaat actttcactc ccttcacttt 1440
 acagcaaggg tcagtagagt cccaaggatt tgtagacttt aggggggtcaa taaagctgaa 1500
 attgtattca aaaaaaaaaa 1519

<210> 734
 <211> 1449
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (200)

498

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1443)

<223> n equals a,t,g, or c

<400> 734

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atggattaat ttatttactt tttaattcaa attctccttt tctttagccc attattccta 120
tgtttacaca aaatattcga gaaggattta gatcacttgg aggaacaagg ttatttaggt 180
ggctttatga aaaattccgn tatccatttg ctccaatgta tggagggttt ccagtgaagt 240
tacggacctt ttagggcgac cccattccgt atgaccaca gataacagcg gaagaattag 300
ctgaaaagac gargaatgct gttcaagctt tgattgataa gcaccaaga ataccaggaa 360
acattatgag tgctttgtta gaacgttttc attgataaca aagggtcaac tagaagatga 420
ttaggtacat ttatattaaa tgtttgtatc taagggtactg tcttctgaat ttgttaggtc 480
ctataaattag tattttttta aaaaatcatg ttaataagca tctttcacag aattcgtttc 540
tttaaaatag tcaattttgt ttttgcaatt gtgtcaaata ctaacaaatt acacacctag 600
taattcagaa aaagatgtct tatttgtaaa ttcctaaciaa tttatgctaa acatatagat 660
tcttaagttt attaataaca gcagtttagg ttaaacaaac attcctggat aatgcgttaa 720
atttctgtat ctgtcgccct gagctgattt tgaaagatgg tataagctag gggtagtat 780
agttgtttta gtagaaaaa acatgctgtt gtctgcccct cattcccttc atgaccttgg 840
gcaagtcacg taatgttttt gtgcctcaac aattcacttt ttaaaaacat gatcgatga 900
tgaatgatat tattttgtta tttatattta ctgtgattga taactgttga accaaaataa 960
taaaataatt aatttaaaca atgtcaaaat cctttagcag ttatgtatat attttctcca 1020
ttgtgtgttt aaattatgtc atgtccagtt gccaaagcaca atgaaaaaga tgtattattt 1080
tttaaattga ataaaaaatt aggaaaaata aaatttctaa ttattatttt tagtatgata 1140
ttttkaacaa gagtctatag gcaacaata taggggtgtg tgtgcattgt cagccctata 1200
ctgtggtcct aataatgcc a gcttaaaaat cactgttgtg ctctgcattt cgtgtgttag 1260
aagctgattc taggctgagg aaagcaagag ttctctactt ttgctcaata ttgaggctta 1320
cccagtttga ctctacagct agtgaagygg tttattgctt caataaaaat atacttgaat 1380
gatgaattta tttatgtttt gttttgtttt tatttagaga tgggggtttg ncaagttggc 1440
cangcctgg 1449
```

<210> 735

<211> 930

<212> DNA

<213> Homo sapiens

<400> 735

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gcggcacgag ctctctctct ctctctctct ccagaagtgg acttccctgt cccccaggc 60
agaggcagga gtgtggagtc tgtgcagagc cagccccagg agcccgtgag tgtgccccag 120
acactgacta gcacgctgga gcacattgtg ggccagctgg atgtcctcac tcagacagtc 180
tccattcttg agcagcgggt gacactgaca gaagacaagg tgaagcagtg tctggagaac 240
cagcagctaa tcatgcagag agcaacacca tgatcagggg agcaggaatc aggagctcgg 300
tggatttgca ggtggcaggc cagggatttg tacrrtgga cttgggtaaa taaaggggac 360
```

499

```

tgaactctgt gggaatcaca tccatactgg agccctggat ttttgcagtt ctgccctcca 420
ccttgctatc tgcaccagga ggctctccac ctggcagcca gaggtcccca gtgggcccggg 480
ctcacacaca aatgatgctt cagacccgaa tgagaggacc acattttgct taatgtaaag 540
gagccacttg aaaatgtctg ctccctcggg gtcctgagat tgtggctccc cctctggagg 600
aggtggctcc acgatgcctt gattttcact catcatttgg acatgtgact ggcttttcct 660
acctctgcca tgggtgtagaa attgattgca cattgattgg atgagccggg gggtttctct 720
aaatctgact aaaggcccaa agtgggcccc tctgagtcag gtttgttgag aacaagccct 780
ctcaagtggg tgggtggcttt tcagtggccc tgatttctgt tccacacgtg ttcactggag 840
ccaggtgact tcctccttgc gtgagtgagg gcacaggaat ctcaaaatta aacctgactt 900
cattgcaaaa aaaaaaaaaa aaaaaaatct
930

```

<210> 736

<211> 914

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (894)

<223> n equals a,t,g, or c

<400> 736

```

ggcacgagct gagggcggcg atgctggagg ctgccgactt cgcggctcgc aagcaccggc 60
agcagcggcg gaaggacccc gaggggaccc cctacatcaa ccaccccatc ggtgtggcac 120
ggatcctgac ccacgaggcg ggaatcactg acattgtggt gttacaggcg gccctgctcc 180
atgacacggg ggaggacaca gacaccaccc tggatgaggt ggagctacac tttggggcac 240
aagtgcggcg cctggtggag gaggtaacag atgacaagac tctgcccagg ctggagagaa 300
agaggctgca ggtggagcaa gcgccccaca gtagccccgg ggccaaactg gtgaagctgg 360
cagacaagct gtacaatctg agggacctga atcgctgcac ccagaggga tggtcagaac 420
atcgagtcca ggaatacttc gagtgggcag cgcaggtggt gaaggggctt cagggaaaca 480
accggcaact ggaagaggct ctaaagcatc tgttcaagca gcgggggctg acaatctgat 540
cagtgtctga agctatccag aggcacaact ccagcctcgt tcaggccgga caggattcat 600
acgccatctt ttctgtgtct cctgagctcc ctccatcctt cccagatatt agaggccaaa 660
aaaagacttg cattttttct cagtctgaag gtctcctgct aactaagctg agccccgcgt 720
ggtgggaatc agatgtaccc atccatttct gatgcactca ccgcctctcc ccaagtcttg 780
ggtctgtttg ctattttgca tgggtgggac tctggccctc cagggacttg agattattta 840
agtactagtt cctaacacgt tctggaaaat aaaaataact ctgggttaag gttnaaaaaa 900
aaaaaaaaaa aaac
914

```

<210> 737

<211> 1227

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 737

```

gcaggaataa ttttaaaacta tttttgctgt aatgtgnagc tttaatgtct cttttcagka 60

```

500

```

yggaccata aaagtattcc tatatcttgt gaataaagat cattcttgtg gactagtacg 120
tggatgcatt cataggcttt gggaagcagt ggtgtgcgta tgtgtgtcta tatcaatatt 180
ttatgtttat aactctgcgt attaatgtta tatagaaaaa aataatgtct ttcttttagtg 240
tttgggggac tcaatggtaa tatgaccatt gcagtgtaat ctgactgctc actctagaga 300
acacttctgt tatacacaat gcacatacaa acatacaccc ctaaagcgta gctaactgct 360
cccactagat aattgctgct aaaaacaaaa caaaacaaaa caatacaaaa caaaaaaac 420
cctaagtaat ggaggaagaa atagcattct tttaaaaggg gcttttctga agagtaaaat 480
gtaaatacag gacatgtggg gaggggtggg cgcctgcaa aatgtcctga agatggacaa 540
atagcctttt aaattctact ttttaaccat ctttaccgtg tgtgcctatt tgtattgcag 600
atgtgaacta ctatttttgg aggttgatat cagtatgttt tgaaactgaa ttattacata 660
aaatcagagt aacctctttc tccatcctcc tttccacac tattcttgcc aaatatttct 720
actgaaaccc agtttcagca aggcaaaatg atgggactct caaacctccc tcctcatctt 780
cccttcccc ctgtcttatg cctggcctgg ccttttttgt tgttgttggc ttttcataag 840
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gtagtcattg tataattaga aacaccaa atgctgaatcct atcactgtgt tcttgggggc 1140
caggccttgg atttggttgt catttaaact ccttgaagat tatatgtaat tataatgagc 1200
agaaggcaaa taaagttttt gaacaaa 1227

```

<210> 738

<211> 775

<212> DNA

<213> Homo sapiens

<400> 738

```

ggatcttcat gttttcacat cttagatgc aatttgtag cacaggctgt cattccaaga 60
cacacaaatg tcattaaggc aaccgcttaa aggagtgtga tattttattg aggtagacag 120
gacaatagat aaatatattaa tctgttacat gtttgctctg tgtggagcca ggggtggggc 180
tgcacaactc tctggctgct atgtgtcttc ctggaaaccc tgtcaaaggc cttaccgcct 240
gcctggagaa acacagtgcc tgcccttggc aaatatatgt tgggtgtatct gaaaaacagc 300
tcctggaagc tttttctcat tcaggcttta ggggttacc cactcttctc tatgtgtgta 360
atattggaga atgtacactc tcaactgaact ggggatgttt gacttaaaat gatggacaat 420
aagatagtga gcagtaagtg tgctctaggg taggctacga gaggccatga gctcctcatc 480
tcttctctgt tctgagctct ctgatccact gcacttgggg caggggggtgc attctctgtg 540
cctctcctga gtctacttcc tgcatcattg gttctcccag ctcacttcca taatgtcctc 600
ctaggctgca ttggaattgt gtgttgtcta gaccatggc caagactgtc attgcctgtg 660
agggagacca agctcaccac caagggtttt tgccagattg ctttcattta cagaatttgc 720
ccattcatgt gtcttttgtt ttatggatta aatggctttc tgaccagcaa aaaaa 775

```

<210> 739

<211> 1437

<212> DNA

<213> Homo sapiens

<400> 739

```

cggtgtaccg tgtcttaaag cccctgaaag awaacgctaa taamgcaaaa agcttactgc 60
tcactaccat acctcagata gggccacag aatggctcaga aaccctccmt aacctgaaga 120
atatggccca gttttctgtt ttattaccaa gacattaaag tagcatggct gccaggaga 180
aaagaggaca ttctaattcc agtcattttg ggaattcctg ctttaacttg aaaaaatayg 240

```

501

```

ggawagacat gcagctttca kgcccttgcc tatcaaagag tatgttgtaa gaaagacaag 300
acattgtgtg tattagagac tcctgaatga tttagacaac ttcaaaatac agaagaaaag 360
caaatgacta gtaaacaatgt gggaaaaaat attacatttt aagggggaaa aaaaacccca 420
ccattctctt ctccccctat taaatttgca acaataaagg gtggagggtg atctctactt 480
tcctatactg ccaaagaatg tgaggaagaa atgggactct ttggttattt attgatgcga 540
ctgtaaattg gtacagtatt tctggagggc aatttggtaa aatgcatcaa aagacttaaa 600
aatacggacg tactttgtgc tgggaactct acatctagca atttctcttt aaaaccatat 660
cagagatgca tacaaagaat tatatataaa gaagggtgtt taataatgat agttataata 720
ataaataatt gaaacaatct gaatcccttg caattggagg taaattatgt cttagttata 780
attagattgt gaatcagcca actgaaaaat ctttttgcac atttcaatgt cctaaaaaga 840
cacggttgct ctatatatga rgtgaaaaaa ggatatggta gcattttata gtactagttt 900
tgcttttaaa tgctatgtaa atatacaaaa aaactagaaa gaaatatata taaccygtgt 960
attgtatttg ggggaggggaw actgggataa tttttatttt ctttgaatcy ttctgtgtct 1020
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tttagaaaag tccagttctt gaaaacactg tttctggtaa tgaagcagaa tttagttgg 1140
taatattaag gtgaatgtca ttttaaggag ttacatcttt attctgctaa agaagaggat 1200
cattgatattc tgtacagtca gaacagtact tgggtttgca acagctttct gagaaaagct 1260
aggtgtttta tagtttaact gaaagttaa ctatttaaaa gactaaatgc acattttatg 1320
gtatctgata ttttaaaaag taatgtttga ttctcctttt tatgagttaa attattttat 1380
acgagttggt aatttttgct ttttaataaa gtgsaagctt gcttttttaa aaaaaaa 1437

```

<210> 740

<211> 1389

<212> DNA

<213> Homo sapiens

<400> 740

```

gggacggcgg gcacagcgca gcaactcccc ctcgttgccc cgggtatccc agcgcggacc 60
cacgcgatac gctgacgccc cgacgcgat cgggccgagc caagactcaa cgatgactct 120
gaataatgtc accatgcgcc agggcactgt gggcatgcag ccacagcagc agcgcgtggag 180
catcccagct gatggcaggc atctgatggt ccagaaagag cccaccagt acagccaccg 240
caaccgccat tctgtacccc ctgaggacca ctgcgcgcca agctggctct ctgactccac 300
agactcagtc atctcctctg agtcagggaa cacctactac cgagtgggtgc tcatagggga 360
gcaggggggtg ggcaagtcca ctctggccaa catctttgca ggtgtgcatg acagcatgga 420
cagcgactgc raggtgctgg gagaagatac atatgaacga accctgatgg ttgatgggga 480
aagtgcaacg attatactcc tggatatgtg ggaaaataag ggggaaaatg aatggctcca 540
tgaccactgc atgcaggtcg gggacgcata cctgattgtc tactcaatca cagaccgagc 600
gagcttcgag aaggcatctg agctgcgaat ccagctccgc agggcccggc agacagagga 660
cattcccata attttggttg gcaacaaaag tgacttagtg cgggtgccgag aagtgtctgt 720
atcagaaggg agagcctgtg cagtgggtgt tgactgcaag ttcacgaga cctctgcagc 780
tgtccagcac aacgtgaagg agctgtttga gggcattgtg cgacaggtgc gccttcggcg 840
ggacagcaag gagaagaatg aacggcggct ggcctaccag aaaaggaagg agagcatgcc 900
caggaaagcc aggcgttctt ggggcaagat cgtggccaaa aacaacaaga atatggcctt 960
caagctcaag tccaaatcct gccatgacct ctctgtactc taggaacca gggtcacca 1020
gatgtccctt tgatggccgt tgttgaaggc cattgggacc aataatctat attagattga 1080
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ggcaacatga tgcattggaa atgaaagatt tttgtaaaaa gtcagtattt atttccagga 1200
aaagcctgac cttgctattt gaacacccaa gactctttag aggatgtgtt tgggtgttcac 1260
atgkgtttyt tytatttttg atagtagrga agtaaagctt acaaagaatg cctagaacaa 1320
gaacttttca tcattaaaaa tttttccag tgtytgaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaa 1389

```

502

<210> 741
<211> 852
<212> DNA
<213> Homo sapiens

<400> 741
gtttcttgcg ggggataaaa aagggtcttg gagattcatg cgatgtgtcc aatcggagac 60
aaaagcagtt tctctccaac tccctctggg aaggtgacct ggccagagcc aagaaacact 120
ttcagaaaaa caaatgtgaa ggggagagac aggggccgcc cttggctcct gtccctgctg 180
ctcctctagg cctcactcaa caaccaagcg cctggaggac gggacagatg gacagacagc 240
caccctgaga acccctctgg gaaaatctat tcctgccacc actgggcaaa cagaagaatt 300
tttctgtctt tggagagtat tttagaaact ccaatgaaag acactgtttc tcctgttggc 360
tcacagggct gaaaggggct tttgtcctcc tgggtcaggg agaacgcggg gaccccagaa 420
aggtcagcct tcctgaggat gggcaacccc cagggtctgca gctccaggta catatcacgc 480
gcacagcctg gcagcctggc cctcctggtg cccactcccg ccagcccctg cctcaggagc 540
tgatactgca gtgactgccg tcagctccga ctgccgctga gaagggttga tcctgcatct 600
gggtttgttt acagcaattc ctggactcgg gggatattttg gtcacagggt ggtttttggt 660
taggggggtt gtttgttggg ttgttttttg ttttttggtt ttttttaatg acaatgaagt 720
gacactttga catttcttac cttttgagga cttgatcctt ctccaggaag aagggtgctt 780
ctgcttactg acttaggcaa tacaccaagg gcgagatttt aaaaaaaaaa aaaaaaaaaa 840
aaagaaaaaa aa 852

<210> 742
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<400> 742
ggcacgagaa gccctggaca catggatttg agtcctaact ctgtctctta gatttttcta 60
tgcagtttta ggtcttatgg ccagagagat ttgaagatat ttaatatctc taagctgcaa 120
tctttatctg caaactgggg ttagtaatcc aatcaacctt attgcggata ttgtaagaaa 180
aaatgagatg acaagtgtaa aaactcagaa ctatacttac aaggtaagca gacaaaatat 240
gctattgttg tgattgtttt ctctctgaat aaataaactc tgctgaagaa ttatttagat 300
atgtttctcg aatcgagaat ncagttccag ctctcatttc tggcactgac atattggcca 360
aatatgattc tnatacaata atcagctgct ttgctgtgag ccttggagtg gtcagctggt 420
gatggmctgc ttgtattcct attcag 446

<210> 743
<211> 892
<212> DNA

503

<213> Homo sapiens

<400> 743

```

aattcctaaa attgcaaata atactcaact atgaagaatt ttattagtta cagtgcctatt 60
aaagaatatg tgctcctttt tattatatta tcagataactt atgtttaatt gtacattttt 120
taaatcctga atatatgttg ttttgtaaac aaatgtaatc agtggaaccc ttcttacggt 180
ttgattatta gcagttaaat acattttgta tacatgaagc ttagattaat tcccatcatc 240
atcatctcct gtttttatat gtgtccctat gtgtttcatg cattcctctt tgatcagatt 300
ggaatttgag ttaaaattta gctttgtaca ttacgtgtga gagttacaga ctagcaagtc 360
taattacttt gccttacctt gagtgatgc cacaggggtca gataacacat taaacattta 420
gttactactgg attactcttc caaagctgac ctcttgctaa tgttcagagg taactgcaat 480
ccggaaagaa ataatatcac tgcagaaaga atgtgactct aaaaataaac caggacctcc 540
ctgtgatttg ccttgccctgc agatgaccag ttgactcttg tgctgtcagc cctgggggtg 600
ctaaggaagc tgcttcaggg agttgggggt tagttgcccg ctctcaacag gaatgcctcc 660
tctactttgt cagagatgct gaacaaatat caaactctgt ggcagtcag ctggcctcct 720
aagaataacc tgtgagtcag agttgatgca cattattttt gtttttattt tattttttta 780
aggaactgct ccaaggggtc attatagaac aggagtgtgt acggaggact taggtcccca 840
catagagtgg ccgttctgta atgaaccctt ggagcagttc cttaaaaaaa aa 892

```

<210> 744

<211> 700

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<220>

<221> misc feature

504

<222> (694)

<223> n equals a,t,g, or c

<400> 744

```

tgcaggtagc ggtccggaat tcccgggtcg acccagcggt ccgatttcaa aagctaatac 60
tataatacat ttccataaaa atgatgtttt aagggtaaaa gaaaagaagt aagctatttt 120
cctagataaa gctgcccagt ctaacaagac ataaaacatg tttttcggcc taggnttntt 180
atcaatttag agtggtaatg ctgggtcaga tgttttgatt aattaatctt tgattaataa 240
gtataagana gctaattatt agaagagaag gttgttttat aaacatcatc tttcaaaatt 300
cgagatttat ggggaataaa ttaggagaag gtggttaaac ctcttcaaca ataaattgct 360
ctttggggac attttatgca cagaactgtg caccctctc agaacagcag gtctttaatg 420
gcccatgtga tgagaagggc cccatcaagg cagcaggaat gggccactct cccacacccc 480
atggggcagg ccactgccac tcctgctgcc ctgcatcccc aggtttatgg ctgcatggta 540
gaagtcactt ctgtaagaaa ttcacctttc taaaataaag tatgctcttt tttctgagac 600
atctatagaa taacttgtgg cagagtgttt taaaaactga tttggatttt ttttatcctt 660
taaccctgtg gaaaggatgg aanggatatt angnggaaga 700

```

<210> 745

<211> 442

<212> DNA

<213> Homo sapiens

<400> 745

```

agcgagaggg agaccaggg ggtgaaact tgaactctgg ttctttttaa attaatattg 60
gttggtgttg ggggagggcg gagtgcggtg gagaagaacc gaccacccc gcgcaagggg 120
aagcctcctg tctccctttt ccccgcgctc gagraggcgg aaaccacag tgttacctga 180
cttatgaaac ttgaaaccgc ctctggagcc gccattctgc agagtatttg gaaaaagaaa 240
aaagggttta tgcttacgtc tctgggtcg gggggattat gtcacgagcg ttcaaactgc 300
tggaatctc aaaactgtac tgtctttatt tttgtatatt gtatttatat ataaaaagaa 360
acgtctacgt atgcatgcta aattattatt tagcgtctcc catcgccac gatggaatgt 420
aaaataaatt ggttttgtac tg 442

```

<210> 746

<211> 1329

<212> DNA

<213> Homo sapiens

<400> 746

```

tttactccag gtagatttcc acaatatgca aagtgggtgg ggggtcaaga cagatgacac 60
cagcacttta aactctttgt gtgggtatgc gtgggtgtat gtttggaag aaaaacaaag 120
gtgcagacta tcttcctttt tttctcttc agcctccatc cctggcctcc tccctcaca 180
cacactggac ttggtacaaa atgtcgggtg ggtcctagat gaagcattgg ggtgggggag 240
ggagagggag ctttgtgtta agtgctact ggaaatgcac tgtgggggtt tttcctgtat 300
gggaaaccat ttatgccaa cttttccca tttcccatat ttatctcatc tggttagctg 360
cctctgcttc cagctttgtg taattctctt tgccagctgc acaaagctga ttttttccaa 420
agtctaaaga ctgagctcac ctggctagat tgttgtgtgt tttgttgat tttttcataa 480
tgtaatgccg tatttattgt ttttaaaatg aaaggaatac taataagtct taaaagttcc 540
ttcatgcata agattttttt ccagttactg ggcttaactg gtgtacatta attagatgtc 600
catactgtat tttgtttgca ttaagtaatt ttctttttga cttagtatcc ggcacacaaa 660
gtgggttagt actacagtat ttgcgttact ttaagtacta agtatgcagg tttcctggta 720
ccattgagtt gctgctatta aagctcacac acgaaatggc taaaagttac aagtgtgcaa 780

```


505

```

attatgactg cgtgagcctt agaaaataaa atgtataaa ggcaacacat gasctgtcaa 840
acagtgttag gagtgtgttt atatgtacag agttgtgcat agcaatcgtt ttatttaagt 900
tgatatgtag tctactcaca tttycattat ttagcaattt tgtacaaaaa tagcmattaa 960
tttgtaaaca ctgccagaat acttttctagc tgctttgttaa ttttttaaga gtgttatttt 1020
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ctgtaaataa aattgcagta tttaaagctt aagctttcag gaaaaagaaa ataagaattc 1140
agtgtgtgca tgacaactcg tgtgtatgag aaggagggat atgaaggaag atggccttgca 1200
gagtaagtcg ggtggcaatt gtcaggggtg gatcttacca cttcaaattg gtgtaatttg 1260
aataaatttt gtatggtaaa ggatcaataa aatgattttt ttaagaaaa aaaaaaaaaa 1320
aaaaaaaaag                                     1329

```

<210> 747

<211> 239

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<400> 747

```

gagaacttct gaagtgggtg atcaagtaca attctaataa gggaccaggg taagtgactt 60
ggcaacaatt tccttgggaa gctgccaaaa tcttatcttc agtctcaaaa ctcttatctg 120
cagtcatagc tagtctagaa aggtaagtct tgatttctta gctaaatgag taaagtttgt 180
attctacaaa gaaaatagaa tacnaataaa aataataatg gagaagcaaa cttaaattc 239

```

<210> 748

<211> 1589

<212> DNA

<213> Homo sapiens

<400> 748

```

gcttttagaag aacatttcta gggaataata caagaagatt taggaatcat tgaagttata 60
aatcttttga atgagcaaac tcagaatggg gctacttgaa gactctggat ctgctgactt 120
cagaagacat tttgtcaacy tgagtcctt caccattact gtggtcttac ttctcagtgc 180
ctgttttgtc accagttctc ttggaggaac agacaaggag ctgaggctag tggatgggtga 240
aaacaagtgt agcgggagag tggaagtga agtccaggag gagtggggaa cgggtgtgtaa 300
taatggctgg agcatggaag cggctctctg gatttgtaac cagctgggat gtccaactgc 360
tatcaaagcc cctggatggg ctaattccag tgcaggttct ggacgcattt ggatggatca 420
tgtttcttgt cgtgggaatg agtcagctct ttgggattgc aaacatgatg gatggggaaa 480
gcatagtaac tgtaccact gtgaaccag aatgccaca ccatggaagc cacacactct 540
gctgtctcct tctgtcctca ttctgtcct tctcacagtc agtccctctt ggctcttctt 600
agagtccctt tcattccctc atttccactt cctgccgctg tactgtcacc tgtggcctgg 660
atttgactc ttggtccaac acctcaact ycaacacctc tgtctttctg ccccatccac 720
tagacaaaag ctgactctgg aaaacattag gcactcagaa tcaagggttc tggggtcaga 780
tggataattg ccatcatcct caccaagttg ccactggact ttcttgcccc taaatccact 840
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ccctttcaga acacctctg cccttggaat ctgtgcacag gaagctagtt gctcccctga 960
atacactctt tcttcttgt aatacagcct ctgattttga gccaagaat aaagactaca 1020
gttctcagac tccttcgcaa ataaattttg tgactaaact ctagtcaaca gtaagggtcat 1080

```

506

```

gtagcagctc ytggaatct cctttaaaaa gagagcttgt ttataacctat tgksatctct 1140
gttcttctgt gcccctkctt ccattttgct gcctggaaag cagatgtgat ggctgkaatt 1200
ccagtcacca ttttggacca tgaggacaac accctagaga tgtggagtgg ctaaaagaag 1260
cctgtgttcc tgagaactta gaggaccagg acctctattc caggcttgga cacctacatt 1320
tagactatta tatgaggaag caatcaactt ctcacttgtt tcaaccactt tcacttgcag 1380
tcaaacctga attgtaagt aaattgcttt cctgatagca aacctgttgg attttctcca 1440
gaatccctgg gccactttta gcagtcagat tcgtctaata ctcctttaa gatggtggca 1500
gtgaaactgg tacatgggac ctgactgggc ttgtttgca actttctgat aatttataat 1560
tatttcaaaa taaaaaaatt ttaaaaaata 1589

```

<210> 749

<211> 633

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (632)

<223> n equals a,t,g, or c

<400> 749

```

attcatacta gcatgctcat gaataaggca atgtgttaag cactggcata caaatgcagc 60
taaagggtgct gaagggaaggc agtgggggtgg tgcaggcaca cagcaggag ctcttccccg 120
tgacacgtta gtcattcttct ccacagagca scacccaasw gccttccttc agcaccttta 180
gctgcatttg tatgccagtg cttaacacat tgccttattc atactagcat gctcatgacc 240
aacacataca cgctcatagaa gaaaatagtgt gtgcttcttt ctgatctcta gtggagatct 300
ctttgactgc tgtagtacta aagtgtactt aatgttacta agtttaatgc ctggccattt 360
tccatttata tatatttttt aagaggctag agtgctttta gcctttttta aaaactccat 420
ttatattaca tttgtaacca tgatacttta atcagaagct tagccttgaa attgtgaact 480
cttggaatg ttattagtga agttcgcaac taaactaaac ctgtaaaatt atgatgattg 540
tattcaaaaag attaatgaaa aataaacatt tctgtcccc tgaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaanaaa ana 633

```

<210> 750

<211> 967

<212> DNA

<213> Homo sapiens

<400> 750

```

gggaggctct gaggaccaat tggaagaccc agcactaagt ggtaaggctt gggagtgtga 60
aatggggagg aggggctggg atcttgggtg gtggggccag gccctgagtc cctctctgct 120
tgcttttcag agcctgggga ggaacctcag ccccttccc cctctgagcc tggcacatag 180
gcacccagcc tgcattctccc aggaggaagt ggaggggaca tcgctgttcc ccagaaaccc 240
actctatcct caccctgttt tgtgctcttc ccctgcctg ctagggctgc ggcttctgac 300
ttctagaaga ctaaggctgg tctgtgtttg cttgtttgcc cacctttggc tgatacccag 360
agaacctggg cacttgctgc ctgatgccca ccctgccag tcattctctc attcaccag 420

```

507

```
cgggaggtgg gatgtgagac agccacatt ggaaaatcca gaaaaccggg aacagggatt 480
tgcccttcac aattctactc cccagatcct cteccctgga cacaggagac ccacagggca 540
ggaccctaag atctggggaa aggaggtcct gagaaccttg aggtaccctt agatccctttt 600
ctacccactt tcctatggag gattccaagt caccacttct ctcaccggct tctaccaggg 660
tccaggacta aggcgttttt ctccatagcc tcaacatttt gggaatcttc ccttaatcac 720
ccttgctcct cctgggtgcc tggaagatgg actggcagag acctctttgt tgcgttttgt 780
gctttgatgc caggaatgcc gcctagttaa tgtccccggg ggggcacaca gcggggggcg 840
ccaggttttc cttgtccccc agctgctctg cccctttccc cttcttccct gactccaggc 900
ctgaaccctt cccgtgctgt aataaatctt tgtaaataaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaa 967
```

<210> 751

<211> 695

<212> DNA

<213> Homo sapiens

<400> 751

```
attcggcaga gstgagtggg taggaggtgc agcagtcttt gggtagcagc ctactcaaga 60
aaagaatgat aattacatac tcacaatctt tagccatcaa gcacttattt cctcaactcc 120
ccctccccct ggcttattgc caaacctaa atcctgtatc ctatttactt catgcctgtt 180
ggttactaag tagttccatt tagagtacac attcattgtt gccttgaact tgctctgctg 240
ttatggcacc tgaaaactag atgttcttgg atgggggtct tccttcatca aagcttcttc 300
ccatttgtac ttcagttcta ggacaaggca agargaaagc aagaagctgt aaatcccatt 360
cctctgggtc tcaatttcac cctcagttca aggagctgag taggcagagg caaaggctat 420
actcaacaca cgtgcaattg aaagcaggcg agggcaaac accggcagagg aaaggaaagg 480
ggtgtgtgta ggtatggatt tatgggtagg tgggtcggta ggtagttga agaggagggt 540
ctaagcagta taacctaagc ctcttttctc tttcttctgc ttcaaacacc ttaagaactg 600
ctcagggtag actggagaca aaagcaacag ctcagaagtg ctaaactctg aagagcagcc 660
aaagcatggg caacaaagtg agaccccatc tctac 695
```

<210> 752

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 752

```
aagcggccgt gaaagtgttg tgctatcgac aacggtatgc aggcgcctt ttttacgcgc 60
ccagctgacg ggtagccagg tgcaaccatt aagcatcgca atctgttgct gtgccagttc 120
agcagaactg swtgtcagaa tgggcacttc gtcagcaccg atcaaacctg cctcatgctg 180
ttgaaaatct ggccccact caagtgcgag ataattaaga tctcccttta gttttgaagg 240
ggcactggta taaagcgcta aagtgaata tcccagcaac tgactactwa aattcgtcca 300
ttttgggcgc ttcagtggta aataaggaag atcaagctgg cgttcatgca gctgttttac 360
cagagactgn ccgtttgggg caatttcggg 390
```

<210> 753

<211> 508

508

<212> DNA

<213> Homo sapiens

<400> 753

```
gcctgactgg ttcacccctcc ccggaacttc ctagacgccg tacgtgccag atgggtgttac 60
ctggagctta aaaagctgca cgcaagtgtt aaacttctga caatggccaa gaacaaatta 120
agagggccga agtccaggaa tgtatttcac atagccagcc aaaaaaactt taaggctaaa 180
aacaaagcaa aaccagttac cactaatctt aagaagataa acattatgaa tgaggaaaaa 240
gttaacagag taaataaagc ttttgtaaat gtacaaaagg aacttgcaaa tttcgcaaaa 300
agcatttcac ttgaacctct gcagaaagaa ctgattcctc agcagcgtca tgaaagcaaa 360
ccagttaatg ttgatgaagc tacaagatta atggctctgt tgtaatatat tgggtgatgca 420
tctaattctc caaaaagacc aataaattga atgttttata caattttaaa atcttggtta 480
tgtacgggct tgggcacttt ttaaaacc                                     508
```

<210> 754

<211> 1162

<212> DNA

<213> Homo sapiens

<400> 754

```
tagttctaga tcgcgagcgg ccgccctttt tttttttttt tttttttttt ttttttaaag 60
agagtgtgta tgtacttttt ctctctataa gggccagggt gttggtcaaa ttcaccatcg 120
attaatttat atcttctgtt gtgatttttt tcaactatat aacaagtgcc aactaattgt 180
ccatgggaca atctactttt cactcaattt tatcgttttg agtagggaaa ggttcattta 240
ttttcattac ctggcattaa gttaaagaat tcattatttt gcatacattt gagtcattct 300
gtgacctata aagtgttttt gtaactatct aattctaatg gttgcaaagc aaagcacatg 360
actgtaaaac caagcaagggt gttttagtaa ctttttcctt gaatacttgg tagtttccat 420
tgatactatt ccaaaacaaa ttctgctgtt ttaggttgta tatttacttt gcttttggtc 480
taagaaaaag ccaaggacta aatcaacttg tttttgtgtt tcagtaatca gtttaaaatc 540
taagattttt ttttaaatta gactatttaa tgaagtgcc tgaattgta gcttgctagt 600
gtttaatgtt taatagactg gttctgtagg tgttttaacc atttaacact ctctgccatc 660
cctggagaaa gtggttctac tcttactgaa cacattctct ctgacaaaat caccagctgc 720
tttatttttc tatttattac agttaaacag ttgatgaggt ctgaatcttg accaaaactg 780
ctcagctgag atgtttttca caatagacac tgtacaaagt gtgcgtgcaa aaggacacgg 840
ttggtagtat tttttcatta atgtgaacat tgactaaaaa aaagcagtc tgccttttaa 900
atcttgtggc agctcagaag ggaggtgctt aagaacctta actactatgt cagataacaa 960
aatatttttt tccatttttg agattgggta ctgctcacac atgatgtata gggctaaata 1020
tatgcttgtt tccttgacc tgtgtacttc ccctctctcc ctccctttcc tccccctgta 1080
ggcaataaat ggccattttg caactgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa aa                                     1162
```

<210> 755

<211> 1087

<212> DNA

<213> Homo sapiens

<400> 755

```
gccccacgcgt ccggcgtctt gwggctgcgg cctgcccctc agcctcctcc gcgcgggttac 60
ccctgtaccc gccgccatcc gtccctggcg tccggatgag tcaatgaggg gcagggcccg 120
aggagtggtc ttccaagaa ccctgggtgg cctcccaagg ccggtgctgt gtacctctc 180
cccgacaaaa ggggaaactg agggcccgag gggagtggga agagccggct ggacgtcagg 240
```

509

```

cccagccgct ggtgcagtgg tccgtccctt ctgccgggggt gggccctcg ggtttcgcgt 300
gtcctcggga aagagactgg cgggcctcgt gggctgtgcg gctatcctgg agacagatga 360
cagctctccc twggatggct ttgctgggtc cgcaccagcc agcgccccca tttttcctgc 420
agcaccctga tctgcactcc ctgagggggt cccactgtcc gcggtgtgag gatgtccctg 480
gatagtccac tgtgtgcaga ggcattgggag ttgtcatgtt gggaacatgc tagacctcag 540
tacccttgag ggatgctgcc ttgggtcttg aaactgttag aggaaacccc aagaggtgca 600
gscactgagc ctctcaggac aatgacctgg ggtcccagct cccctggagg ggccctcctca 660
tgattgtttg ggggttgatc acagaccaag agtgacgagt gatgtcacc tgtgactcat 720
ggccggacct tcttgccctt attgtctcag cacaacatta ttgactttt ccctcagcgt 780
gggtgggcag aggaaaagcc ctgtggctct ggggacttgg gatccagagt tgaagacct 840
tcagctggct ctgccctgcc agtgccacag agtgccatgg cccaggaaga caggttttct 900
tccatctagg ccaggccatc cagtggccat cctccgtgtc ctcccgcctc ctcttggtgt 960
gacttctgaa aaccaagaat ttgttcctgt tgactttttc tgtgctatgg accattgtcc 1020
tctcaccac tcaataaatc ttgaaacatg maaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaattac 1087

```

<210> 756

<211> 803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<400> 756

```

gacgggtcat gagcgcggtt ttactgctgg cctcctcggg gttcctcctc ccaactgccag 60
gagtgcaggc gctgctctgc cagtttgagg cagttcagca tgtgtggaag gtgtccgacc 120
tgccccggca atggacccct aagaacacca gctgcgacag cggcttgagg tgccaggaca 180
cgttgatgct cattgagagc ggaccccaag tgagcctggg gctctccaag ggetgcacgg 240
aggccaagga ccaggagccc cgcgtcactg agcaccggat gggccccggc ctctccctga 300
tctcctacac ctctgtgtgc cgccaggagg acttctgcaa caacctcgtt aactccctcc 360
cgctttgggc cccacagccc ccagcagacc caggatcctt gaggtgcccc gtctgcttgt 420
ctatggaagg ctgtctggag gggacaacag aagagatctg cccaagggg accacacact 480
gttatgatgg cctcctcagg ctgaggggag gaggcattct ctccaatctg agagtccagg 540
gatgcatgcc ccagccagggt tgcaacctgc tcaatgggac acaggaaatt gggcccggtg 600
gtatgactga gaactgcaat aggaaagatt ttctgacctg tcatcggggg accaccatta 660
tgacacacgg aaacttggtt caagaaccca ctgattggac cacatcgaat taccgagatg 720
tgcgargtg ggcagggtgt tcakgaracg ctgctgtctc tagatgttag gantcacatc 780
aacctggtg gggacaaaag gct 803

```

<210> 757

<211> 796

<212> DNA

<213> Homo sapiens

<400> 757

```

ggcacgaggg aagaagaaaa aaatggatgt tggaaagttg twgcatgtct ctctggatag 60
ctcagaagta tcagttgtgg ttattscctc acttggtctt tgtaagcatg aaaaagccag 120
ggacaatttc aactaccatt tctgaccatc atcaaccaca aatttttaggc aatttgtag 180

```

510

```

aatttttttt aaatgttctt aatagttggt gggtagctgg gagatttcag agaaagtaat 240
cacctttgta tatattatta atgtgtttat aatagaaatt aaattctttg ggatgtacag 300
gtaagataag ctatgtgaag catagctggt atccaagtcg tgtgcctttg aaatacttgg 360
aatttgaaga acaggacatg cagcttatgt tataattaat ttgcgagcaa tatatggcat 420
gatagtattt tcttatctaa attctgagtg cattgaaagt ttaaagcaaa ggacaaaagc 480
ttcctttggt catggcccat attccagtat atttttctga aactgccaat attttctgat 540
cggtagctttc atttttctag ttggttacca aatactgtta ttggtattat ttctatataa 600
aaggctttta gaagactata gtataatttt cttaagaaaa aagacatgat tataagctaa 660
aatatgcctt cgggtttgtg tgctacaaat tgaggagat tgagaatatt ttaaatcaag 720
ggcmgacatt gagtaaaagc ttatgacttt ggatggattt gaaacaygat taaatgacag 780
agtaataaaa aaaaaa 796

```

<210> 758

<211> 335

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<400> 758

```

aattcggcag aggggttagaa tcagtctaga aatcatgtca aattcttata acttgctatc 60
aaactagctg gttcaattcc ttattagtga tctgcaataa gataaaatct tgtgctacaa 120
cataaagcaa ctatctcaat aaacacagtt taattcagct aactttatct tttttttag 180
caagawtttt tcagtgaat aagtgggtgtg ttgatttata gtttggtgca agctccctat 240
cttcttgtag acctataacc attgtgccag ngggtaagaa atgggtccca gccccttcac 300
ccgtggcact gnccncaca gggaaccct ttggc 335

```

<210> 759

<211> 1019

<212> DNA

<213> Homo sapiens

<400> 759

```

gtggtgagct gagatgacgc cattgcactc cagcctaggc aataagagca aaactctgcc 60
tcaaaaaaaaa aaaaaaaaaa aagtctaaag gcttaaagtt tgatgcagct acctgaaatg 120
atcttttatt tattttattat tagaaaaagc aaaggcatat gggcattgct tattagtttg 180
aattctagag actagatctt aaagtagtgg ttctcaaagt gttgtgccg caccaacatc 240
agaatggcct gcaaacttgt agcaaactct ggggaggagg ccagcattct gtattttaac 300

```

511

```

aagcttccct caggagattm tgatgcctgc taaatTTTgg gaaccactgt tttaaaggaa 360
actTTTTTTT tctTTaataag catttaattg tatgasatga ttgctTTTtac atgtgatttc 420
cttgcaaatg ttctgaagtt gaggcacac caaacaagtc tgaacaattc tttatgtgat 480
ttatTTTTaa agtagacctt ttgaagagat ctatgaatgg gatataaagc aattttcagt 540
gttacagggtt ttcttcttct tctcaaaact gtttgctgta agtaactgca atcagtactt 600
actactttcc attttgcttat gagtttcttg acaaatcaag gtgtagaaaa ccagttatta 660
agtgattttg tactttcctg gtagttgtca ctaaaataat ttttgTggca tataaatata 720
tttaataaaa tgcaaaaatt atcttcctgt ctagtagaaa aaattacatg agtaaagtga 780
agcttctgtc tttgttactg taccagggtga caacagmtga gtgtccctcc atggacagtc 840
actattggcc ttttgagtga gacagttctt taggataaaa rcctgtcatc ccattgcagg 900
attcatttag cctttctggc ccttaccas tgatgctagt cattgtgacc accccacctc 960
ccccaaataa aagtgtgcc aactaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1019

```

<210> 760

<211> 1504

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1441)

<223> n equals a,t,g, or c

<400> 760

```

ggtcgccgga aactccgggc ggccggaggct ggaccagagt cgagttccct cctcctgcac 60
caaagggagc cgccaccgctc tgggtgtctaa accgcctcgg ttccagaaag ctgagtctga 120
tctggattac attcaataca ggctggaata tgaaatcaag actaatcatc ctgattcagc 180
aagtggagctg tcaccactga ctaaagaaga gaaaactgcg gcagagcaat tcaaatttca 240
catgccagat ttatgaagaa atggacttgg aaaggaaatt ctaacagaga agagcttaat 300
tccggagaaa tttaggaaga tgtcttgta acccttgatg tctagagatt gggggctggt 360
gaaggggggtt tggcttcaat gactggataa tgatatcttt catgagagag attataagaa 420
gaagggcgaga taatatatga ataaagtcca gccaaaagga tcaaatgaga ataaaacgat 480
ttaaatatat gtacacacgc atgcacacac acacttagtc ttgtaatttc aggccagaaa 540
ttctcaacac tattttgcat ctgttttctt tttctaagtc atgataatat agatgttctg 600
gtctatcata aaagaatgtt tatgtacatt tcagtcattc ggtatgtggc tttgtaaatt 660
aaagtatagg caaaacattt gtgttatata tgatatataa tttcattttg taaatgttga 720
ttgcacatgt ggtcacatta ttgttgagac tgcttttatg tgacctgtag tctcccacag 780
aacctaaagt aataagctgg cttttctgtg atagccacgt ttgcgtattt ctttccctat 840
ttcccttgcc tgctaattgtt gaacagcatg aacttgcttt ctgatgctgt ttttagactgt 900
ccctgttgta tctcaataat atctttgttt tccttcagcc tttattacta taattgttca 960
ttctacatga aagctaggaa actgraatta gaagagcact tatctgctac ttgccagttt 1020
tgcgtagtg tgttatatgt atgtgtcaat ttccctttaa aataactatt tattttaaaa 1080
taactattgg caataaggaa actgttcaaa gtagaggcag atcttgatag aaagatgtta 1140
atcacagggt tgtttataat agcaatatac atacacattt ggctagtact aggtgaatag 1200
gaaaataaat catgctgtat gtatacaata agaggccaag ttgccataa attattactg 1260
ttaatgttct ggggraatgct graactatgc taartggggg agagggraag caggtattgc 1320

```

512

```

arttttgtar tgaagattgg gctttggagt catatctgag atgtaagtag cagcttttaa 1380
atncctagct atgaccctgt gcagatcact taacttttga gtggtcagga tgttggagg 1440
ncaagacagg aaagtggttt taataccagg gtcccagtat ttagtaagcc tccaataagt 1500
gata 1504

```

<210> 761

<211> 813

<212> DNA

<213> Homo sapiens

<400> 761

```

gggccgaggc aggggggatca cctgagggtca ggagtctcta ctaaaaatac aaaaattaga 60
cagggtgtggt ggtgggcgcc actcaggagg ctgaggcagg agaatacact gaacccggga 120
ggcagagggtt gcagtgagcc agatcatgct gctgcactcc agcccggccg ctcaccgtgt 180
gtgttgctgg gtgctggggc tgtgacttay cccctctect ttagccttgc cataagtgt 240
gtatcctatg aggctgagat tgggaaaggt tacatgcagg taagccagtg gacgtggccg 300
atgcttcagg ctcttccag ccagggtccag cagtgttacc atctgcttct cctgggagga 360
caaaccaggc acccccacca tgaaggggct gcaggcacca tgaactatgt taacaacccc 420
agtctgtact acagaaaggg ctgcagccac atgagaattc agtccacaca agccccatgg 480
ccgtgttccc cacttcagcc acagggtca gggagcccca tctggcgcta aggggaactg 540
ctggggtgtg ggtgacacct ggcctttggc gttctgcctt ggggagggtt ctggttttgt 600
tacggggtgg aagaatagga cctgggggtc tcggatgcaa cctgcagacc ccgtgggtca 660
cccaacccca ggttctgcct cccagaccag aacgggcatg gcctggctct tggcaccgag 720
gtgcctgctc tgtaaatatc aagggtattc aactttaata ataaagcaga acttgaaaac 780
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 813

```

<210> 762

<211> 2013

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1976)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1995)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2004)

<223> n equals a,t,g, or c

<400> 762

```

gcggccgctc caacatcaga atctgagctc cgggtgacgc ggctgcggta gctgcggata 60
caagccttcc gcggtgctct cctggcgacc ccgacctcct cctgctgtct ctccgctccg 120
ccaccccgaa cccgccaaagg tctgtcctt ttcctcctgt cctttgccag cggtgggccc 180
gaccgggccc agccgggccc cccggggcga gtctttaacc atggcgctcc tcttcaagaa 240

```


513

```

gaaaaccgtg gatgatgtaa taaaggaaca gaatcgagag ttacgaggta cacagagggc 300
tataatcaga gatcgagcag ctttagagaa acaagaaaaa cagctggaat tagaaattaa 360
gaaaatggcc aagattggta ataaggaagc ttgcaaagtt ttagccaaac aacttggtgca 420
tctacggaaa cagaagacga gaacttttgc tgtaagttca aaagttactt ctatgtctac 480
acaaacaaaa gtgatgaatt cccaaatgaa gatggctgga gcaatgtcta ccacagcaaa 540
aacaatgcag gcagttaaca agaagatgga tccacaaaag acattacaaa caatgcagaa 600
tttccagaag gaaaacatga aaatggaaat gactgaagaa atgatcaatg atacacttga 660
tgacatcttt gacggttctg atgacgaaga agaaagccag gatattgtga atcaagttct 720
tgatgaaatt ggaattgaaa tttctggaaa gatggccaaa gctccatcag ctgctcgaag 780
cttaccatct gcctctactt caaaggctac aatctcagat gaagagattg aacgggcaact 840
caaggcttta ggagtagatt agtcaaaaaga agtcatacta ttttgcttac ttataattat 900
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atttcagctg gcagaaaaga attacattta aaactgaaat caaggcctca atacaaagat 1560
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ataatttaaa ctgtttaatt ttgtttaatg tgtatattga atcttccaaa ttgaagccat 1860
tattctcaat taagtactac aactatgaca atgcttgacc tacatttcta aaataaaaaat 1920
tcacattttt tgataaataa actacagttt taccagaaaa aaaaaaaaaa aaaaancccg 1980
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```

<210> 763

<211> 620

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<400> 763

```

cactgtgcct ggccagattt ntttttaaga gattcatcat accttgacct gtgccccatt 60
tccctctctc acctgtctga cctggcattc ctatttcggg agaccagaag tggggggaag 120
agaagggatg actgkttctt tgktttcacc attcctgcat gccatgcaaa ggaaggaata 180
ttgcgctttt aaatatymgt tttattaagt aagtgggttac tctttcaarg acaaaaaaaa 240

```

514

```

tgcaaattgt  tacaaaaactg  gcagtatttg  taagtgcaag  cactacacgc  tgccttggtc  300
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tggagggttc  tctaaacact  gaaaatagag  gtgccacatg  atccagcaat  cccactgttg  420
gatataatac  ccagaaataa  gaaatgagta  tatcgaagaa  attatctgca  ctcccatgtt  480
ggttgcacca  ctgttgacaa  tagctaagat  ttggaagcaa  cctaagtgtc  catcaacaga  540
ttaatgtatt  aaagaaaatg  tggtagatac  acacagtgga  gtattattca  gcctanaaaa  600
gaatgagatt  cagtcatttg  620

```

<210> 764

<211> 1934

<212> DNA

<213> Homo sapiens

<400> 764

```

ccatgcactc  cagcctgggt  gacgagaaag  actccgtctc  aaaaaaaaaa  aacaaactct  60
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atcttgaaga  atttggagtt  tttcagggca  attcaaata  cctcattttt  tgttcttttt  180
gtattccaga  cagtgtttct  gtcattggat  ctctgattgg  tagtgtaaat  aaatattctt  240
tcagtgtgag  ccagattcat  aaaattaatt  ttcttcattt  tagtagtaaa  aagtagtcta  300
atagcttttt  gtcagcttga  ttttktgtg  tgtgtaatat  tcaagggcag  aatgacagga  360
cagataagca  ataagaaatg  tatagaatta  gaaaatatag  tagttccctc  ttacccatgg  420
gacatacggt  ccaagacccc  cagtgaacgt  ctgaaaccat  ggatagtata  gacacctcta  480
tacactgttt  tttcctatac  atatatacct  atgataaagt  tctattttata  aatcagggac  540
agcaagagat  aaacaataac  tgcaaataga  acaattataa  cagtgcactg  taataaaagt  600
gatgtaaatg  tgatatgtct  gtctctttct  ctyaaaatat  cttattgtac  tgtactcacc  660
tgtaatcaga  ctgtgggtga  ccgtgagtaa  cccgaaacca  cagaaagcaa  aatcgtggat  720
aaggggagac  tactctatat  gaaacttaag  ttacaaaatt  ctctgaagca  tttgaaacta  780
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ttgcagagaa  aagattgcaa  taaaactcat  tcctaaactt  ttcaatttta  taaaattaaa  900
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aatgatttgc  aattagatgt  ttccattctt  gaaagaaaaa  agctgcaaat  aacattttca  1260
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cacagactgt  agatgtcctt  ccaattcttg  ggaggctaaa  ctgagtctac  catttcttac  1380
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ccaaatata  ctatgttggt  acttaagata  ttctaaatgt  ggataacttc  tgacctagga  1500
aacatgaagt  ttgtagtgaa  gtaagtgaag  agaattgtca  ggaaattttw  tttcyccatc  1560
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aatattttag  aaatagaaga  aaaaagaaaa  ctgtagatgt  tttatcttgt  ttttaatactg  1680
tatgtttagt  acgtatacat  ttatgttcta  gtgtatcaaa  atttttcatt  ttcattaaag  1740
tgaatccaat  tttccatatt  ctaggtccat  tttaaaccat  gaaaacttta  atcacatatt  1800
ttgtaaagg  ctgaaagtat  gatttaaact  acagattgat  atattttta  tctaaatgaa  1860
aggtaatgta  aataagcatg  gatctgattg  aataaagatt  ttaaaatarw  aaaaaaaaaa  1920
aaagggcggc  cgct  1934

```

<210> 765

<211> 159

<212> DNA

515

<213> Homo sapiens

<220>

<221> misc feature

<222> (152)

<223> n equals a,t,g, or c

<400> 765

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acctggcctc tctattctct mcttcctctt tctagaattt ctattaggcg gatgttgaat 60
ctcctgaatt aatctctaata tttcttccct tccctttccc ttctccttcc ctcccttcc 120
ccttctctcc cctcccttcc cctmccctcc cntccctc 159
```

<210> 766

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<400> 766

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acccacgcgt cckcccagaa tactgggtcc aaatacagaa tactaggctc aaaaggctgc 60
catgcggctg gccttcctgc tgggaaggag tctgtctgtg tgtctgtctg tgtttaggaa 120
gggagggttg ggcagggcag ggtcagagag cactgccgtg gggaggaggg tatccatttc 180
ctggtgatat ccttccattc aaagcgggta tcccagaaca ggtggccagg gacgggtgag 240
ctggggaggg ccaggagaga gatctctgct tgtgtgagaa aggatggccg agctggccta 300
gaaccgctgc tagactatct ccaaagtctt tgcagcacc tgaagggtgaa ccagtgcctt 360
cagaccttcc ctgacaccta agccttggtc ctaggaaara aaaaaaaaaa gggnggccgc 420
tctagngggt ccaagn 436
```

<210> 767

<211> 752

<212> DNA

<213> Homo sapiens

<400> 767

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tgcacccacg cgtccgcccc cgcgctccggg tgggttaaagg gccatgagcc caaaccacta 60
ggttgttcac cttttcatct gaaaatgctt tactctgact atgtgctatt gggttttatt 120
tccagaaaaat atagttctcc ttttttctgc atgaaggata catcgtggtg ccacatgctt 180
```

516

```

taagcaattt aaacaagaga gataagagga aaatgcaacc accacatctg acttgcccaa 240
tgtagacttt cctctattag attgaagtac acaacctaat atgatataatt atttttagt 300
atctcagact ttgtaaataa ataccattat ttttatatgg aaattttata gaagagctat 360
ttctgtatac gtaattactc ctgattttct gaaattgctt ctggtagata acagacaagt 420
cctaagcagt gttccactaa ggggtggttc aggcctgcct gccgtggagt tgactggggg 480
aattttacag ttttgcgatc ctaggatgcg tcccagacgc tcagtcagaa gtgctggagg 540
tggggcctgg gaagctgtat ttgtaatgaa ctctgggtgt ttttgtccat taaagtgtat 600
ctttgtccat cctataagat taaaggaaag aaaaagcatc tcaaagagt gtaagttgtt 660
cttgagaaaa aaatgtatca gacttttatg atttgaatga aatgtattat agaaaaaaat 720
aaacacttta aaataatggt agtctcatta aa 752

```

<210> 768

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 768

```

gcggccgcgg ggtggcgctg caggtggtgc gggaagccag ccaggagagc aagttgctgt 60
sggtcatccg tgagaccagg gcggcgagtg gaagcacggg cggatcatcc tgcccagcta 120
cgacatggag taccagattg tgttcgaggg agtgataggg aaaggacgtt ccggagagat 180
tgccattgat gacattcgga taagcactga tgtcccactg gagaactgca tggaaacctat 240
ctcggctttt gcagggggca ccctcctgcc agggaccgag cccacagtgg acacggtgcc 300
catgcagccc atcccagcct actggtatta cgtaatggcc gccggggggc cgtgctggt 360
gctgggtctc gtcgcgctgg ccctggtgct ccactaccac cggttccgct atgcggccaa 420
gaagaccgat cactnecat cctacaaaac cttccactac accaacgggg cccctctggc 480
ggtggaancc ca 492

```

<210> 769

<211> 1174

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

517

<400> 769

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agtgtgctct gagggagggt ccgagccagc cgctgttttg ccggaggagc ccctcaggcc 120
gtagtaagca ttaataatgt ctttcatctt tgagtggatc tacaatggct tcagcagtggt 180
gctccagttc ctaggactgt acaagaaatc tggaaaactt gtattcttag gtttggataa 240
tgcaggcaaa accactcttc ttcacatgct caaagatgac agattggggc aacatgttcc 300
aacactacat ccgacatcag aagagctaac aattgctgga atgaccttta caacttttga 360
tcttggtggg cagcagcaag cacgtcgcgt ttggaaaaat tatctcccag caattaatgg 420
gattgtcttt ctggtggact gtgcagatca ttctcgctc gtggaatcca aagttgagct 480
taatgcttta atgactgatg aaacaatatc caatgtgcca atccttatct tgggtaacaa 540
aattgacaga acagatgcaa tcagtgaaga aaaactccgt gagatatttg ggctttatgg 600
acagaccaca ggaaagggga atgtgacctt gaaggagctg aatgctcgcc ccattggaagt 660
gttcatgtgc agtgtgtctc agaggcaagg ttacggcgag ggtttccgct ggctctccca 720
gtatatggac tgatgttttg acggtgaaaa taaaagagtt ttacttctct ggactgatcc 780
tattcacagc ttctcatga acttttctaa tagaacaagg aaagctctcc aacctgtctc 840
ggcgttgaga agccaagagt ctctgtcaac tctctcattg cccagtgggtg acatgtgctc 900
ttctccacac tgttgggagg taatgctgcc ccacgtgctg gtgcagggtc gtatcctggg 960
acttggaagc tggcaggatt tgccgggtaa agctgtatgc catcatgggg cacctgaaaa 1020
graaaacacg tctcaccact gtggttgatt caaaagaaag tgattctatt ttttaaagaa 1080
agcgttggtt atgtaattgg tatccctcct aactttttga gttcasaatt tacttggtca 1140
gattttctat tctttttttt ttttaacta atga 1174
```

<210> 770

<211> 2468

<212> DNA

<213> Homo sapiens

<400> 770

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gaaggaaggc atcctctttg tcacctaccc agatggtagg ccaacagggg acgcttttgt 60
cctctttgcc tgtgaggaat atgcacagaa tgcgttgagg aagcataaag acttgttggg 120
taaaagatac attgaactct tcaggagcac agcagctgaa gttcagcagg tgctgaatcg 180
atttccctcg gcccctctca ttccacttcc aaccctctcc attattccag tactacctca 240
gcaattttgt cccctacaaa atgttagaga ctgtatagc cttcgaggtc ttccctatgc 300
agccacaatt gaggcacatc tggatttctt gggggagttc gccacagata ttcgtactca 360
tggggttcac atggttttga atcaccaggg ccgcccatca ggagatgcct ttatccagat 420
gaagtctgcg gacagagcat ttatggctgc acagaagtgt cataaaaaaa acatgaagga 480
cagatatgtt gaagtctttc agtgttcagc tgaggagatg aactttgtgt taatgggggg 540
cactttaaat cgaaatggct tatccccacc gccatgcctg tctcctccct cctacacatt 600
tccagctcct gctgcartta ttcttacaga agctgccatt taccagccct ctgtgatttt 660
raatccacga gcactgcagc cctccacagc gtactaccca gcaggcactc agctcttcat 720
gaactacaca gcgtactatc ccagccccc aggttcgcct aatagtcttg gctacttccc 780
tacagctgct aatcttagcg gtgtccctcc acagcctggc acggtgggtc gaatgcaggg 840
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gaagtttgtc tacactcagg ctgcagtatt ttcagcaaac ttgattggac aaacgggcct 1020
gtgccttata ttttggtgga gtgaaaaaat ttgagcyagt gaagccaaat cgtaacttac 1080
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gttttaagtc ttggataaaa actccaccag tgtctaccat ctccaccatg aactctgtta 1260
aggaagcttc atttlygtat attcccgctc ttttctcttc atttccctgt cttctgcata 1320
```

518

```

atcatgcctt cttgctaagt aattcaagca taagatcttg gaataataaa atcacaatct 1380
taggagaaag aataaaaattg ttattttccc agtctcttgg ccatgatgat atcttatgat 1440
taaaaacaaa ttaaatttta aaacacctga agatawatta gaagaaattg tgcaccctcc 1500
acaaaacata caaagtttta aagtttggat ctttttctca gcaggatatca gttgtaaata 1560
atgaattagg ggccaaaatg caaaacgaaa aatgaagcag ctacatgtag ttagtaattt 1620
ctagtttgaa ctgtaattga atattgtggc ttcatatgta ttattttata ttgtactttt 1680
ttcattattg atggtttgga ctttaataag agaaattcca tagtttttaa tatcccagaa 1740
gtgagacaat ttgaacagtg tattctagaa aacaatacac taactgaaca gaagtgaatg 1800
cttatatata ttatgatagc cttaaacctt tttcctctaa tgccttaact gtcaaataat 1860
tataaccttt taaagcatag gactatagtc agcatgctag actgagaggt aaacactgat 1920
gcaattagaa caggtactga tgctgtcagt gtttaacact atgttttagct gtgtttatgc 1980
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gcttgaatgc aatgccgtgc agatttatgw ggctgctatt tttattttct gtgcattact 2160
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ctgaaagact ttaagatagg cagtaatgct tactacaata ctactgagtt tttgtagagt 2400
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aaaaaaaaa 2468

```

<210> 771

<211> 1488

<212> DNA

<213> Homo sapiens

<400> 771

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tcgaccacg cgtccgcggg aagcgagccg cgcagcaaca aactcgccgc cgccgccctt 60
cagcgactgg rgccgcctgg aggcgcsatc ctcagcggct ggaagacctt ctggcagtca 120
gtgagcaagg agagggtggc gcgtacgacc tcacgggagg aggtggatga ggcggccagc 180
acctgacgc ggctgccgat tgatgtacag ctatatattt tgcctttct ttcacctcat 240
gatctgtgtc arttgggaag tacaatcat tattggaatg aaactgtaag agatccaatt 300
ctgtggagat actttttgtt gagggatctt ccytccttgg tcttctgttg actggaagtc 360
tcttccagat ctaggaatct taaaaagcc tatatctgag gycactgatg gtgcattttt 420
gactacatgg cagtctatag aatgtgctgt ccatacaca gaagagcttc aaaatccagc 480
cgctctatgt atggagctgt cacttctttt ttacactccc tgatcattca gaatgaacca 540
cgatttgcta tgtttgacc aggtttggaa gaattgaata cctctttggg gttgagcttg 600
atgtcttcag aggaactttg cccaacagct gggttgcttc agaggcagat tgatggtatt 660
ggatcaggag tcaattttca gttgaacaac caacataaat tcaacattct aatcttatat 720
tcaactacca gaaaggaaa agatagagca agggaagagc atacaagtgc agttaacaag 780
atgttcagtc gacacaatga aggtgatgat caacaaggaa gccggtacag tgtgattcca 840
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cataaaagac atgaatggca agatgaattt tctcatatta tggcaatgac agatccagcc 960
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tatttttact ctttaccata aatcaattac aagaaaagag tttcagtcct agtatttagc 1380
cccaaatga acctttaaac attttttttg taatttttat attttctgtc tttttaaaaa 1440

```

519

tatttaaattc tggaaaaaam aaaaaaaaaa aaaaaaaaaa aaaaaaaa

1488

<210> 772

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (546)

<223> n equals a,t,g, or c

<400> 772

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aaagcaagct atgaaatgct atattttagt gcttaaaagt aaattagtgt gttttcttaa 120
aaatctaaac caagattaaa atgaatatag tcataggtat gaggggcatg taatttatct 180
tccgactgga gatacctttg agagttaaag gaggagcaat taattgttat tccaggacaa 240
cagatatataa tcgagattat actaggtgaa ctgggacata tggtcattct tgtcatagct 300
taattcagga aaaaaggagt tagggaartc tgaargtcta actcaaagtt tngatgcttt 360
ttaagcaagt ttaggggaact tgagatgacc tgattgagac ccctaaatct acagatgagg 420
aaagcaagcc tcaagcaagg ggggcctgac ctttccctgk tccctgkgta ttcttgkctg 480
kggcaaarcc cattgccttg attctcttct ctttactttc attttgagaa gtannttctt 540
tctgcng

```

<210> 773

<211> 1394

<212> DNA

<213> Homo sapiens

<400> 773

```

gcaaatatag acatcatatg tagtttgtac atgtttcaga aacttgtttt ttctttgctc 60
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aaccagttct cagaccctag agtgtaagag cattgatatt ctacgctgtg taatctagct 180
caatccctct gtccccctcc cctcacgcgc ccccagccac cacattgtat agcaaaagca 240
ttacattcaa tcctagaaya aaggtaaata caacaaatca tctttgcagc tggacaacta 300
ataatacttt gcagcattaa gagatcttct gtgttaccag tcaactctgt gaaatgaact 360

```

520

```

ttccgaatct ctttattcag gaaaacatgg ggttttgaaa ttcttggggc aagagacata 420
actgaggggt tcgcagagct aggcaagggg gcactaggaa agggccacat tgggtgggtgg 480
ggggtaacag agaacagatg gtgtcaggaa gtttctctgg agtaaataat gtggatatct 540
ttgggtttccc tctcctccgc cagctgaagc tgtgttagtg ctgttgacac taatataaaa 600
tgtttgggtcc atttgaaatc cttgtcattg cttatatggg gggaaactca atccccagc 660
ctgtgttgga aatatcacca aactgattgt aaatgtgcgg ctgtagcaga catttttagtg 720
tgggtgggtg cagccatttc ggccctacac ctgccarcct ggctacctta cagttgtgtt 780
ccgatttttg cgtctatgct tgggtgtgcct cacttgctgc attttccagc atgcaaccag 840
gagttgacgt aggaaaaagg gatgctttct tactttggaa gctctcaggg aagttgggtg 900
caatttctcc tccactgcct ggccctaccct gcactcccaa agattttgtg cagatgggta 960
gttccatttt ttaaaaaattg tgcagatatg gaaaattgtg acttacttca tgaccagaac 1020
tatctagaat atgtgtgggg gtataaacat cttgcttaac caaatatcta tgtaggcaga 1080
ggtaaccagg agagaagcaa gacttgctgc ctaaaggagc ccaccatttt acttttcaca 1140
tttaactctg caggttgaat caattggaat aaaacactgac tcgcaggtga ctggacagga 1200
aatcccaaag ttccaccatt tctatgctta attttaacgt cccccgctt ttttttttgt 1260
agaaaataaa aacaagaaaa tcgttccaat gtaagatgtt tgttatagaa acttttaggca 1320
atacaggtgt gtaataaaaat gttaataaaa cttctaaca cttttgtatt tggataaaaa 1380
aaawaaaaat aaaa 1394

```

<210> 774

<211> 667

<212> DNA

<213> Homo sapiens

<400> 774

```

agtcggtccc ggagctgcct ggaggcggcc gcactcgggg atcatggccc aagttgcaat 60
gtccaccctc cccgttgaag atgaggagtc ctcggagagc aggatgggtg tgacattcct 120
catgtcagct ctcgagtcga tgtgtaaaga actggccaag tccaaagccg aagtgccctg 180
cattgcagtg tatgaaacag acgtgtttgt cgtcggaact gaaagaggac gtgcttttgt 240
caataccaga aaggattttc aaaaagattt tgtaaaatat tgtgttgaag aagaagaaaa 300
agctgcagag atgcataaaa tgaaatctac aaccaggca aatcggatga gtgtagatgc 360
tgtagaaatt gaaacactca gaaaaacagt tgaggactat ttctgctttt gctatgggaa 420
agcttttagg aaatccacag tggtagctgt accatatgag aagatgctgc gagaccagtc 480
ggctgtggta gtgcaggggc ttccggaagg tgttgctttt aaacaccccg agaactatga 540
tcttgcaacc ctgaaatgga ttttgagaaa caaagcaggg atttcattca tctkaagag 600
stgaagtgtt tctccgttgt accatcacag tgatcgata attgaaatta gctacgttaa 660
tgattta 667

```

<210> 775

<211> 1610

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<400> 775

```

gagagaaata gaaagaaaaa gacaaagaga agaagagagg aggaaatgga aagaagaaga 60
gaaacgaaaa aggaaagata tagaaaagct aaagaagata gacagaattc cagaaaggga 120

```


521

```

caaattaaag gatgaaccaa agattaagct gctcaagaag ccagaaaaag gagatgaaaa 180
agaattggac aaaagagaaa aagccaagaa attggacaaa gagaatctca gtgatgaaag 240
agccagtggg caaagttgta cattgcccaa gcgttctgat agcgaactta aagatgaaaa 300
accaagaga cctgaagatg agagcggcag agactwtagg gagagggaac gggaatatga 360
acgagatcag gagcgcatatc ttcgagaaaag agagaggctg aagcggcaag aagaagagcg 420
ccgtagarga aggagcgcta tgagaaaagag aagactttta agagnaaaga agaagaaatg 480
raaaaagaga aagacacact tcgggataaa ggaaagaagg ctgaaagtmc agaatcaata 540
ggcagctcag aaaaaactga aaagaaagaa gaagtgggtca agagagatcg aataagaaac 600
aaggatcgtc cagcgatgca gctttaccaa ccaggagctc gaagccgaaa tcgactctgt 660
ccccctgatg acagcaccaa gtctggagat tcagcagcag aaaggaagca ggaaagtggg 720
attagccata gaaaagaagg aggagaggag tgataagtcc agatggcctt aggtgtcctg 780
actgtctagg cagccaaaga gcacacgtta agcaatccag aggtgccttc agggcaaaga 840
atagagagaa agggagccgc tgtgctgggtg gggtagactg cagaggagta agtcttgtgt 900
caaagcagga atctgatcag aggttcagaa ttggaagtac aatttcattg cttttgcaat 960
ttctacaaat taattttaaa gtgtcagaaa aagggtgacgg caaggacatg cattgcaatt 1020
tgcaggggga attgtcaagt gaggacttca tccatatgac cgagagaaaa gtaagagctg 1080
gttctaaaaat caaaagctgk tgktcatctg aattgaattt tctgaatttg ggtggagcag 1140
agtcgctttg aagccttggt ccgatctaatt tctattgtat tgttgatgat aagtgttgac 1200
attgggtagt gtagaagcaa caagcatgtc cttgtagtac aggtacagtg aaggatagaa 1260
cacactttcg ttgatacaaaa aatttaaata gttatgttac ttctgtatcc agtgtcctaa 1320
agttttagga ttagttttag ttttttgttt gcttatatga gcttagcgta aagaatattt 1380
ttaaacttcg tgttttgtca tcagcatctt ttctattaag aggtaaaatg tagtccttgt 1440
ttgactcttg acaatccagt gtgtttgatc ttaggtctca tgatctgagt gcataccctc 1500
tccaggaagg aaactgcacc agtgtctatt cctgttaaat agcaactttt agtctcagct 1560
tgtttcgttt tgatgtcaat aaatagtaac agcaaaaaaa aaaaaaaaaa 1610

```

<210> 776

<211> 555

<212> DNA

<213> Homo sapiens

<400> 776

```

ggcacgagga ggtaggaaa ccagttaaag ctggttgata tggaacttat ggacactatc 60
atatcaaaagt gggttggcat tttcctgggtg aaaatgacat aaataaaatt aaaagacttt 120
tttaaatgaa tgcttggaata ttgtaaaaac tgtcatttcc tctttttatt tcttaacagg 180
atggcttaaa ttccttggtc cttgatttag attttcctgc tttgaggaaa aacaagaaca 240
tagataattt cttaaataga tatgagaaaa ttgtgaaaaa aatcagaggt ctacagatga 300
aggcagaaga ctatgatgtt gtaaaagtta ttggaagagg tgyttttggt gaagtgcagt 360
tggtcgtcac aaggcatcgc agaaggttta tgctatgaag cttcttagta agtttgaaat 420
gataaaaaga tcagattctg cttttttttg gggaagaaaag agatattatg gcctttgcaa 480
tagcccctgg gtggttcagc ytttttatgc ctttcaagat gataggtatc tgtacakggt 540
aatggagtac atgcc 555

```

<210> 777

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

522

<223> n equals a,t,g, or c

<400> 777

```
ccctgtgcga taatattctt tcatcatttc agtgggnttt tggagggagg cggagatcca 60
ggtgatctgt ctacactatt cagtcagaaa gctggatggt ttttctcact gtttagctgt 120
gactcatact tagaaagtgg tttaaatgtg aatatcttag ttctggttgt acaattgagg 180
taatcctcaa ttcaggttgc tgtctggaca tttcatgact g 221
```

<210> 778

<211> 760

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (721)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (722)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<400> 778

```
aatagagggt aattttaccc agaagcagga tagagaaaat attacagaga aaatcacata 60
tcacatgggc tcgaaagatg tagaggtttt tgacaaatga agaacaacca taacaggtag 120
agggaaacacc atgnaaccag ggcataaaac tgaagtgcc aacatatttc tagagagaga 180
aggggtgtggg catgagttag ggctggaaaa acagggttga aacagataag taagggtctc 240
aaatgcaatg tcaaagagct tgcagtttat tttccaggca atgagtaggc agccaaaaaa 300
aaaaagtaag gatgtttttt ttttttttcc catggcatca tatttaagag gatggattta 360
aattgtgtga gaccaaagca tagagactag ataagaggcg atcaaaatat ttcaaaaaga 420
```

523

```

aataatgaag atccaatgaa ggaagtggaa attaaaaatag ggaagagagt agatggatta 480
gagagacatt taagagatgg aatcaataga tcctgttact agataatgga agtaagaggt 540
gaggaagagt ggaaaagtca ttaatgactc taaagatttc tgcttggctg cttaccaaga 600
ttggcaacaw amsggwggga raaaggtttg gaaaaagaag agaaaggata atgaagtttg 660
acttttacat agaaatgaaa gggcctttcc agatttggaa atcttttggg ttaaataatt 720
nnnaaatttt tgacctagaa aatttnggan ggaaaccttg 760

```

<210> 779

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 779

```

tttatttttaa aatattttatt ttatgtacaa aaaggtaaca tggtttctnt cattgggtgg 60
gtgccttaga taatccattc gtggaagatc acttagtcca acttaatgaa atctatatcc 120
ttcacgtatg anggaaacac tgggtggcatg taacgaggct caatttccag atcagactgt 180
gcccagtttc agcagacmca atagcaagaa ccctggctga cttttcgcggtggtgccag 240
tagagctgct ggtgaatcat ctgtctttca ggagtgcgac agggcaaaaag gaacaataat 300
tcttcataatc catctactac agtttcaaag cacttcagtt acgtttttta aagttcatat 360
tcttccagtc ttgaccagtg ggaactgagc tcctgaatcc ttgtgatatg acctggtatt 420
ttccatactt tcctttatga caagatgccc catccaggct cattttgtac atttctaatt 480
ccagacctag aatcagtcac cctccaagat gtcctgattc ccttttagtg aaattatttt 540
ttaaacatta catattcaga caaat 565

```

<210> 780

<211> 1386

<212> DNA

<213> Homo sapiens

<400> 780

```

gctcagagga gcaatgacga ggtggcccgga gaatttgtga aactcaaadc agagtctcgt 60
tccacggagg aggggagctg aacaccttcg actcctgtgc caatcaggca gcagcaattt 120
cacaaatcag ggccagtggg agtttagctgt gtaaccggct tagggtcttt gcagtcaaga 180
ggctgacccc ttcagttaaa gatattttaag gaaaaatttg ggggtggtgat aatatggctt 240
ttcacagaaa grgtcatgaa gccctggccc aacaggactg tggtagtagg ggctgggatg 300
tgggggttacc acatggagag attttccatt aagagagaag gacaaacatt tctgagagt 360
tcagccattc ttggtagaca cctctccact cctcatccca cctctaccca tctccatgcc 420
acaccttadc cagtttagaca catacatacc aatcattaga agaacaagtt tagaagggtg 480
ggaacttgtg cctggctggc tgggtagtca gctgagcctg ttgctgagcc cgggtggtctg 540
gattggagta tggccagggc aggagtacac agaatagaat ttagactgtc ccttgagtag 600
aatccactga ttttctgtgg ctccagttag aacaaggctt tgaaactgaa caagataact 660

```

524

```

tctagaaatg aactgtacta atccctttcc ccagattgta tcatgagtag aatcagggttc 720
acgtgggtgct tcaaagccct gagaagaata tttctttgga cccagggcac tagggggccac 780
ctgcctggga gtctccctgc ctactcctc taggcagggg agtgatgctt caggacgtga 840
caggctgttc taacatgtgt ctacctgagg gctagttgaa ggatccagga gtattttctt 900
cttgggtggg ccctgaacaa agccaaaaat tgtagaaacc agtctagaaa aagtcctgct 960
catctgtggc cactgccttc tagccgtcct ccaccttgca gaaagaatct agcctttggt 1020
ctctctctct ctcatcgggg tcatttgcta ttccctctg atattcaacc ctatagaagg 1080
agcctggact ctgatccctc tgtacaggct ggatggaagg ggccctccac acttcctggg 1140
aggtcagaga caaactgttt cagagagtca gatggacttc ccaagacttg ttgagagatg 1200
tgacatgggt cttggatttc ctctgtagca gcctcctgga ctctctgagg actcgacatt 1260
gtccacagat gtactggcca ttacatgaaa caagaaacca agcatcttgc ygttggtaat 1320
tatatagggg ccttttttagg gggtttaagg ccgtccgaaa aaaatcactt taggggaaaa 1380
aaaaaa

```

<210> 781

<211> 1229

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<400> 781

```

gcccacgcgt ccgcggacnc gtgggctaata aatgccttta acattcatac tactaccatc 60
tggttaaaggc aatctagttt tttctatcac atccacaaa attcttctar tctctacca 120
ttatccaatt ccaaagcctt ttacacattt taagacattt gttacagaag tacccaatcc 180
gtcccagttc cacaatctgc attagattcc catggctgct gtaacaaatt accctctagc 240
ccagtggctt aaaacaatag aatttattat cttgttggtt tggaagccaa aaktccaaaa 300
ttganggggt ggagggtctg aacgtcttct ggagactcta agggaaacac tcttcccggtg 360
tcttccartt tcttggtggt gccatcattc cttggtttgt gactgcatct cctctcctc 420
tgtcttcaca tcaattcccc tctgtatata taatctacct ctgcctctct cttataagga 480
cacttgtgac gggacttagg gcccatccag attaccatg ataattccct tattccaaga 540
ttcttaatta tatctgaaag gacctttttt ccaaataagg tactatcaca gggtccaggg 600
agtaggatat tgaatatctt ttttggggag ggggcacat gcagctcact acactattca 660
ttgcacacaa atgaattttt cactttttta gatgcattct tgggtgctcaa accagatcga 720
agtgtgtctc taaaagctat tgtctgcaca ggctgctgca tgctctgttg ttaaattggat 780
ggacaggcta ttctaaattt tgggtgatac ttttgctact atgggcaatt aacttgaaaa 840
aaataatcga tcccaactct gtgctctgat gtacctcttc tgccctttt atgacacctt 900
tgaccaaata ccttctatgg ttcacagtgc aggcacaaaa ctacctctga tacagaaggg 960
ttcttttaca gcttatttta cataccgtga atccctcacc taaagggaga ggtgaaagca 1020
aagactgctt tgaatgggta ttgagggaga ttgtgtccat accaagccac cctgaagaag 1080
tatttcactt gcagtagaac tgtggatttg tgctgtcatt tcaccttgga ataaacacct 1140
atctctaagc aggaccaaga atgacttgca atctatatgt aatggctact tacttattca 1200
ataaagttaa gatatacggt aaaaaaaaaa

```

525

<210> 782
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (186)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (302)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (329)
 <223> n equals a,t,g, or c

<400> 782
 tatgtaaata tgtacacaaa aattgttcct ccaaagacat ttttcagtat cttagcatat 60
 tctaaggggtg cagatgtaga attatttctc ttctctggct cagtagcatg tcagaatgga 120
 acataggtat agaatgtttt ttgtatagac aaagcttcac tttcaggggc aaggtttggg 180
 aaatangctg atagtaaagt catgtaacac ttctgtgcag gttaacattt ctggaccttg 240
 ctttccttct cagtgtatgc atgagctatt yttcatgcac cactggggggg cccagtcttg 300
 gnttaatcta ccagttggaa ttttaggang gacctgggct tgtttgg 347

<210> 783
 <211> 295
 <212> DNA
 <213> Homo sapiens

<400> 783
 atttaaaaaat gcaagtgtgc tggcagaaaag gggactgatg attctgtgac tctgcagttg 60
 cagaagctcc gtgtaggaga ttatttggac atagcgatta cccctcttaa tcaggtgcca 120
 cctccttcag ggcacatgag atcatattaa attctttttg agataggggc tcaactatgtt 180
 gcccaggtctg gtctttaact cctgggctca agcaatcttc ccacttcagc ccgccaaagt 240
 gctgggatta caggcatgag ccaccacaac caacaagggtg ggtattaaat ctctt 295

<210> 784
 <211> 734
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (100)
 <223> n equals a,t,g, or c

526

<220>
 <221> misc feature
 <222> (645)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (663)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (706)
 <223> n equals a,t,g, or c

<400> 784
 aattcggcac gagcggcacg agttgttgcc tgggctggac gtgggtttgt ctgctgcgcc 60
 cgctcttcgc gctctcggtt cattttctgc agcgcgccan caggatggcc cacaagcaga 120
 tctactactc ggacaagtac ttcgacgaac actacgagta ccggcatggt atgttaccca 180
 gagaactttc caaacaagta cctaaaactc atctgatgtc tgaagaggag tggaggagac 240
 ttggtgtcca acagagtcta ggctgggttc attacatgat tcatgagcca gaaccacata 300
 ttcttctctt tagacgacct cttccaaaag atcaacaaaa atgaagttaa tctggggatc 360
 gtcaaactct tttcaaattt aatgtatatg tgtatataag gtagtattca gtgaatactt 420
 gagaaatgta caaatctttc atccatacct gtgcatgagc tgtattcttc acagcaacag 480
 agctcagtta aatgcaactg caagtaggtt actgtaagat gtttaagata aaagttcttc 540
 cagtcagttt ttctcttaag tgcctgtttg agtttactga aacagtttac tttgtttcaa 600
 taaagtgtgt atgttgcat taaaaaaaaa aaaaaaaaaa agggncggcc gccccaaaag 660
 ggnccagct tacgtaccg ggccatgcga cgtccaagcc cctccnaaag gggcccccaa 720
 attccattcc ctgg 734

<210> 785
 <211> 1311
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1265)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1291)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1310)
 <223> n equals a,t,g, or c

<400> 785

527

```

ctggccccgac tacttttcgtt ccgtcttcca tcgttttctc tcgtgcaatg gcgtccgggc 60
tggtaagatt gctgcagcag ggacatcgct gcctcctggc tccagtcgcc cccaagctgg 120
tccctccggt tcgggggagtg aagaagggat tccgcgccgc cttccgcttc cagaaggagt 180
tagagcggca gcgcctttct gcggtgcccc cgcgcgccgc tgcgccgttc agagaagccg 240
aactgggatt accatgcaga aatacaagct tttggacatc ggttacagga aaacttttcc 300
ttagatcttc tcaaaactgc atttgtaaat agctgctata ttaaaagtga ggaggccaaa 360
cgccaacaac ttgggataga gaaagaagct gttcttctga atcttaaaag taatcaagaa 420
ctatccgaac aagggacatc tttttcacag acttgccctt cacagtttct tgaagacgag 480
taccagaca tgcccactga aggcataaaa aatcttggtg actttctcac tggtgaggaa 540
gtcgtgtgtc acgtggctag aaacttggtg gtggagcagt taacactgag tgaagaattc 600
ccagtgcgcc cagctgtgtt acagcagact ttctttgcag ttattggagc cctgttacag 660
agcagtggac ctgagaggac tgcacttttc atcagggact tcttaattac tcaaagtact 720
ggaaaagagc tctttgagat gtggaagata ataaatccca tggggctatt ggtagaagaa 780
ctgaagaaaa ggaatgtttc agctcctgaa tcaagactta ctaggcagtc tgggtggcacc 840
acagctttgc ctttgtattt tgttggttta tactgtgata aaaagttgat tgcagaagga 900
cctggggaaa cagtattggt tgcagaagaa gaggtgtctc gagtggccct tagaaaactt 960
tatggattca cagaaaaatg acggccgtgg aactattcca agcccaaaga aaccttgaga 1020
gcagaaaaaga gcatcactgc cagctagccg ccattggatg agcagcctga aacttgagag 1080
cgaaagtgag ataaatgtca aaggtgtttc aagccagaca ttttcacaat tgtgaagaaa 1140
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acagtgtttt tggttttgtt tttctgaaat cttggttttg atcaaatctt tttttttttc 1260
tcttnagatg gagtcttact ctgtcgccca ngcttgact gcaatgggtn c 1311

```

<210> 786

<211> 633

<212> DNA

<213> Homo sapiens

<400> 786

```

acctactcct atatactgac ctgcctgtcc acgaataatk gtaarggggt tttgcmgtga 60
cagtttttac aagaattaca gtttkgtgaa gttgtgtcta aattaaagca tttctttaga 120
acaaatggcc ttaaattctc acggaattcc tggaaatgat tgtgaattgc cttcaaataa 180
tagaaaagtg tatttatatt tgtgtgtgtg tgtgtcaaaa atgtaactgc tttataatat 240
tttttcctta cctatatatt ctattttaata cttggtttat ttctactgta cattgttttc 300
tttgtcccaa gttgacctag ggtgactttt ataagcatga aactatttta ctggaaagaa 360
aaatatatac atccacatat ctaacagtat caatgttata taactatgta ataattgttg 420
atttttaatt atgtattaaa atctttaaat cataactatt tgctttgtac gtttcatgta 480
tgaatgacaa tagtttgatg atttccttta ctgatcttaa atatttatgc cactacagtg 540
tattacctac rgatttttaa atttagcttt atttatcaac ccaaaaaaca aataaataag 600
atcaatattc ttttcttctt gtcaaaaaaa aaa 633

```

<210> 787

<211> 1017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

528

<220>
<221> misc feature
<222> (885)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (971)
<223> n equals a,t,g, or c

<400> 787
aattcggcac gaggtctttt cagcctgttaa ttctttgggc cccaaagaat gacaaaggag 60
gcactcgttc tcttttcttg ctgtatgcct agaaagtggg tgaaggattc ttgatgccct 120
aaaaccatct tgtaagctaa atgggtcttg atccagaaag gccagatttt acctaccaag 180
aaaaaaagat atttttccag agagttaggt atatcataat tttccatttc aagtnctttt 240
tataagtcta gtcattctgc aacgtgacat atccccaaa atgaagttac cttccaagtt 300
ggacacgtcc cgtagtggg catatgtcta actaaaagtt tctgacttgt agtaaattca 360
gcttaaatat aagttgaaat ttgggaaata atttccaagc tcttggaagg ggtaacagtg 420
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cctgcctaag gaactgcaga gaggtggcaa atcagcaaaa aggacaccag gctcttcttg 540
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gagtacaact cttgrgtwtt tttctagtc ggatttttta ttaattaatt cgggtgctgcc 960
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<210> 788
<211> 2718
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2713)
<223> n equals a,t,g, or c

<400> 788
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ttttgacata caatatggag tagtggttat tcgcctaaaa gaaggtctgg atatatctca 180
tcttcaagga caagaagaat tattgtcatc acaagagaaa tctcctggca ccaaggatgt 240
ggtagtaagt gtggaatata gtaaaaagtc cgatttagat acttccaaac cactcagtga 300
aaaaccaatt acacacaaaag ttgaggaaga ggatggcaag actgcaactc aaccactgtt 360

529

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gaaaaaagaa tccaaaggcc ctattgtgcc tttaaagtga gctgaccaa agcttcttga 420
agctagtaca cagtttcaga aaaaacaagg aaagaatact attgatgtct ggtggctttt 480
tgatgatgga ggtttgacct tattgatacc ttaccttctg acgaccaaga aaaaatggaa 540
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agcgatggct actttgctta gcaagttccg gatagacttt tctgatatca tggttctagg 660
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<210> 789

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1676)

<223> n equals a,t,g, or c

530

<400> 789

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agtagaagtg atggatgaaa ccaagtgtg ctgttttttc aaacgaagga aaaggaaaac 180
catacagcgc cacaaatgac tctggacaca gacagatcct ggggagttac ttacatgttc 240
atctgtctgtc ttgtgattaa aatcatctct gtagtgacca cgtatatttt caaggactca 300
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<210> 790

<211> 309

<212> DNA

<213> Homo sapiens

531

<220>
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<222> (307)
<223> n equals a,t,g, or c

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tcagttaaag gagctaaatg aggcagtagc agccttktgt ggtgaccaag aaattatgaa 180
ggccacagra cakagtctag acccaccaat agaggaaaga gcatcatctg agaaatagca 240
ttgaaaagct gagagcccg ctagaaactg atgagtagaa ccactctgtg tcttacaaca 300
actgaanga 309

<210> 791
<211> 640
<212> DNA
<213> Homo sapiens

<400> 791
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agcccaaggc tagcccgagt tgctcgtcgc ccaccggga ttcctcagga gtcccagtg 120
ccaaggagct gctgacggcg ggaagcgacg gccgcggagg tatatgggac aggttgctca 180
tcaactccca acctaaagtc agaaagacct ccactcttca aacagttcgg atagagagga 240
gtcccttatt ggaccaggta cagacatttc tcccacagat ggcacgggca aatgaaaagc 300
taagaaaaaga aatggcagct gcaccacctg gtcgtttcaa tattgaaaac attgatgggc 360
ctcatagtaa agttatacaa atggatgtgg ctttgtttga gatgaatcag tcggattcaa 420
aagaagtgga cagttcagaa gagagtccac aagacagttc agagaacagt tcagaatcag 480
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<210> 792
<211> 590
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

532

<220>
 <221> misc feature
 <222> (548)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<400> 792
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 aattatattg taggggtgta ccatttttga tttcaagttc ctgagaagag aatttgaaca 180
 gtttgctatt tggaaatttt agcaaccagc taccttgcct atggaaagat taaaaanaaa 240
 actttatttt ggaaatttaa agacatncac aaaagaggaa caatataatt aacctctgtt 300
 aactcatcac caacaagact catgaccact tttatacttc atgagtgnat tgtatttgta 360
 tccactgttt tctattattt tcgagcaagt ctcagacaca ccatttaatc tgtaaataat 420
 tcagcatgta tctctaaaag acaaagacct cttaaataac agttcattag tataaaacaa 480
 attgggtaaa cttttgttgg tcatcaaact atatttagcac tgggtccaata gtttaatttt 540
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<210> 793
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (41)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (441)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<400> 793
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 ccccgccggg tggacaagcg gacgctggtg gagctgcatg gtttcaggc tctgctgcc 300
 caaggtgcct tctgctgagg ctccggtctg agcctggcct cgggtcggtt caccgcccc 360
 gtgtccggca tcttccartt ytytgccart ctgcamgtgg gagccggatg gggcagtgcc 420
 gtgtgctgtg acggggctgg ngctganctt tctgggggc 459

533

<210> 794
 <211> 1664
 <212> DNA
 <213> Homo sapiens

<400> 794
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 tcccagagtct caccctccca ggcagctcct acactcaact gcttctctag gaaaggtctc 180
 acctccagcc tggagcagtc gggattacag aaagcccat ccttggttta gggagcgcca 240
 tgacgactga aattgggttg tggaagctga ctttcctccg gaaaaagaaa tccactccca 300
 aagtgtgtga tgagatccc tgcacctatg cccaaacaga gggagatgca gaacccccga 360
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 agagcacaac gggcaagcac gtcaaggtct ccaactcagg acgcttcaag gagaagaaga 480
 aagtgaagac cagctgggca gagaacccta acctctttga tgatcacgag gaaggacggg 540
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<210> 795
 <211> 1929
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (601)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (655)
 <223> n equals a,t,g, or c

534

<400> 795

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<210> 796

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

535

<221> misc feature
 <222> (389)
 <223> n equals a,t,g, or c

<220>
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 <222> (399)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (439)
 <223> n equals a,t,g, or c

<400> 796
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 acaggcctga tttaatgcgg ctagtacgat tttaggtgag tagtaatccc gataaatcac 180
 gttgccttgg cgtgcgccac atccaggata ttggtttatg gctgcaaac cgtaaccttg 240
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<210> 797
 <211> 1069
 <212> DNA
 <213> Homo sapiens

<400> 797
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 cccagcaaca ccagcctcct ggccacctcc tctccaatgc ctgtgaaaga ggagtttctg 180
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 ggctcctgtg ggcccaggag gtctggtccg agtctcagcc ctgaccttct gggacatggt 300
 ggacagtcac ctatccaccc tctgcatccc cttggcccat ctgtgcagta agcctgttgg 360
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 tgatctcaat ctcccgtggg catctcaagc cccaaatggt tgggggaggg gcctagacaa 480
 ggctccaggc cccacctcct cctccatacg ttcagrggtg cagctggagg ctgctgtggg 540
 gaccacactg atcctggaga aaagggatgg agctgaaaaa gatggaatgc ttgcagagca 600
 tgacctgagg agggaggaac gtggtcaact cacacctgcc tcttcttgca gcctcacctc 660
 tacctgcccc catcataagg gcaactgagcc cttcccaggc tggatactaa gcacaaagcc 720
 catagcactg ggctctgatg gctgctccac tgggttacag aatcacagcc ctcatgatca 780
 ttctcagtga gggctctgga ttgagaggga ggccctggga ggagagaagg gggcagagtc 840
 ttccctacca ggtttctaca cccccgccag gctgcccatac agggcccagg gagccccag 900
 aggactttat tcggaccaag cagagctcac agctggacag gtgttgtata tagagtggaa 960
 tctcttggtg gcagcttcaa gaataaattt ttcttctctt ttcaaaaatg tataaaaatc 1020
 attatacata gcattaaaga aacatttttg agaagtamaa aaaaaaaaaa 1069

<210> 798
 <211> 869

536

<212> DNA

<213> Homo sapiens

<400> 798

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ggtttcacca tgttgcccag gctggtcttg acctcccgac ctcaagtgat ctgcctgccc 60
cgacctccca aagtgctggg attacaggct tgagccaccg tgccaggcct gttttgtttg 120
tttttgtaga gagatggggg ttccgcatgt tgcccaggct aatctcaaat tcctgagcta 180
aagcgatctg cccacctcgg cctccgaaag tgctaggatt acagatgtga accactgtgc 240
ctggcctgtt tgtttgtttg tttaaaacat ttctccatca ctcatccag gtcccagagc 300
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ggtcatactc tccaacagtt ttcagagctc catatatatg tagatgccaat cctttctaaa 420
aacttctcac gacctccygg aatattccta ttgatctcat tttatttagc atcagctcaa 480
gaaactaagt cttagtgcac agtatcacia caaagaaaaa gctttgtttt tataactggg 540
aaaaacaaga aaagattctc atcaaaatga aaatataaaa ttaatcattt ctcaccaaag 600
agtatgcctg ggagcctcca gctgttaaaa gacaatgcta ttactacttc ttatcaaaaa 660
tctgtaatgc cctgtgattt ttatgatact tcttcaatac aaagtgttaa tatgtgtcat 720
cagtataata acaaccaaca aaatgccact ttcagaaaaa tgtatgtaaa ttttttgtaa 780
caatgtaaaa aagaaatggg gagtaagtgt tcacatcatt aaaaggcttt gaattcatgg 840
aaatamaaaa aaaaaaaaaa aaaaaaaaaa 869
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<210> 799

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<400> 799

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gggagaaggt gccttccctt gttttctggc cttgttatat acagatggca gcttggatct 60
caggtagacg tccaggggca ggcagtgcc cagctggacct ggtggccctt tcctagtgcc 120
tctgctgggg gaggagaacc tctgtccacg tggaggctag gaggtactac caggccctgg 180
cagcaccaga gtgtggccgg gcccgagtgt ctccctcgg cctcagggtg gggcacttag 240
caccagaag ggaccaaag cagggcatgg cgggtgcagag gagtttggga ggtgtaaaca 300
gccccatgca cgtggaggag gagactgttt cagccncaga cccacgcta gcactttcca 360
cgstgcttgc ccgctgttga tgtgcagttc ccagtgcctg tgtgagccga catctgctca 420
gtcctatccc tcgtcagcgt gtggagaccc agctcctgca gccctcctgc tcccaagccc 480
ccagacagct tgggtggagg tctgcatct gggccaggct ggggtgcacc cagcmaaaga 540
caaaagctgc tccacgtgcc caaggattca gatggtgcac tggccccggg aggagtctga 600
ccaaaaatgg agccccgtct gtggggaagc cccgactccc ccacgagaaa cgggtcccacg 660
gtgcggatct ccccttccc ttgtggggca cagctggcct gggcctccaa tcctgcggag 720
ctttcctggg tgtggctttg acctcagaag tggtcttggg ttggcctcag gagtgtggcc 780
tggcccagcc tgctgcagcc tcctgggggg cccttgatgc cactaatccc ccgaccccc 840
gcatctgcca aactgcacag acacacgcat tgtaaggccg cttgtggcct ccagcgtgca 900
```


537

```

ctcttgttta cgtcattgtc atcttcaaga ccagtccttt gtgattagtt ttgcttcgcg 960
agccctgttg tggactgtgg tctgtatgaa tcgtgtgtaa ctgtggtgag gggcttgtcc 1020
tgtatgtgag tctgtaccca ggtgggggtct gtgccctgca caccgggccc ctctgtattt 1080
atcgctgcct gaatgcaaca gtaatttata tccaggacaa atacagtctg ggcgtcacta 1140
tcctaaaaaa aanaaaaa                                     1158

```

<210> 800

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 800

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atrggtatgg taatttcaaa gtgaattggg aattcctctg gctcatagaa cccttttttt 120
tttcctttaa gtattcttga gatacaaaaa aaaaaagtaa atamaatttc aaaaaaaaaag 180
ttccggatct gtttttaagc tccatctggt cctcataacc tgcaagattt ttcttaaaac 240
ctttcagctg aaagtggggg taaagggtgga gtaatctgtg gatttgtttc tgttgtcttt 300
taaaatgtca aatatataat atgtaatttt tttaaaaacc accagataca gaaatgtgct 360
ttaacatcag ttgaaacctt aattttctta tgttgtgggt attgtattaa aaagggataa 420
aagaagagtg tcaaacatgg ttaaatatat tgtactcatt tatgttgaat acgtattaaa 480
attaagacaa atggaaaatt atacttttag tatataattt gttaaattt actttatat 540
gtaattttat gtataatttc atatattggt aaaattcaaa actacacttg agaatttttt 600
tatcttaagt ttggggtgaa tgggggtggat gagactgatt gaatagaaaa gggctaattg 660
cccaaacatt atatagattt ctttttttca gtcagaggcc ttatttgata ttttataaat 720
aaatgacagt ttttattttt aaacttttta ttgttttttg gaaagtattc cttaatTTaa 780
tgacacattc attcagatac ttcttatecc tgctaataaa ggaaatctat ttcaagctac 840
accattgaga ttaagtctga ggcagttcat tgaggcagct ctactataaa agcttacttg 900
ataaataatt atttttgtaa acaagttggg ttaacttatt cttcgtcttt ttgcttggat 960
atgaatttaa ggtcttcatg tttaaagaca ttacttttgt tatttagtga cacatttcca 1020
tcctattttt tttttttttt tggttgttgt taaacagaac ctttaagttta tgtttgaggt 1080
atgtactgca taggaacctt ttttattatt aaagatgaat gattaaaatt ggtatgggtc 1140
ccaatttaat ttgaaaagtg cttaccctta ttcttatata tggtttaatt ttaagggttt 1200
ttgtctcttc ttagtgcaaa actacttagc agtgacctct atctgtattc cttaggaatt 1260
agcagcttct tagtgtggat cctgcagaac ttcttaccat ttgtagtagg ttgaatcatg 1320
tcccctagaa ggtaagtcta agtcctaact tgatacacct gggaagggtg ccatatttgg 1380
aaatagtctt tacagatgtg attaggggat ct                                     1412

```

<210> 801

<211> 609

<212> DNA

<213> Homo sapiens

538

<220>
 <221> misc feature
 <222> (32)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (600)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (601)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (606)
 <223> n equals a,t,g, or c

<400> 801
 gtttattttg gaattacaga tgcaaagtat antggaaaag aaaatgaaam ccargagaaa 60
 tattgccarg cattmcarga atamcccac actaataact ttcctttgca aaaactgcag 120
 tgtgctagcc tgttctgggg aagatatcca tgtaattgag aaaatgcac acgtcaatat 180
 gacccagaa ttcaaggaac ttacattgt aagagaaaac aaarcactgc aaaagaagtg 240
 tgccgactat caaataaatg gtgaaatcat ctgcaaatgt ggccaggctt ggggaacaat 300
 gatggtgcac aaaggcttag atttgcttg tctcaaaata aggaattttg tagtggtttt 360
 caaaaataat tcaacaaaga aacaatacaa aaagtgggta gaattaccta tcacatttcc 420
 caatcttgac tattcagaat gctgtttatt tagtgatgag gattagcact tgattgaaga 480
 ttctttttaa atactatcag ttaaacattt aatatgatta tgattaatgt attcattatg 540
 ctacagaact gacataagaa tcaataaaat gattgtttta ctctgmaaaa aaaaaaaaaa 600
 ntatngcc 609

<210> 802
 <211> 960
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (31)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

539

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (956)

<223> n equals a,t,g, or c

<400> 802

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aagnatagaa attaacccctc acgtaaaggg nacaaaagct ggagctccac cgcggtgctg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagct cttccacccc 120
tgccaggccc agcagccacc acagcgctcg cttcctcggc cctgaaatca tgcccctagg 180
tctcctgtgg ctgggcctag ccctgttggg ggctctgcat gcccaggccc aggactccac 240
ctcagacctg atcccagccc cacctctgag caaggtccct ctgcagcaga acttccagga 300
caaccaattc caggggaagt ggtatgtggt aggcctggca gggaatgcaa ttctcagaga 360
agacaaagac ccgcaaaaga tgtatgccac catctatgag ctgaaagaag acaagagcta 420
caatgtcacc tccgtcctgt ttaggaaaaa gaagtgtgac tactggatca ggacttttgt 480
tccaggttgc cagcccggcg agttcacgct gggcaacatt aagagttacc ctggattaac 540
gagttacctc gtccgagtgg tgagcaccaa ctacaaccag catgctatgg tgttcttcaa 600
gaaagtttct caaaacaggg agtacttcaa gatcacctc tacgggagaa ccaaggagct 660
gacttcggaa ctaaaggaga acttcatccg cttctccaaa tctctgggccc tccctgaaaa 720
ccacatcgtc ttcctgtcc caatcgacca gtgtatcgac ggctgagtgc acaggtgccg 780
ccagctgccg caccagcccc aacaccattg agggagctgg gagaccctcc ccacagtgcc 840
acccatgcag ctgctcccca ggccaccccg ctgatggagc cccaccttgt ctgctaaata 900
aacatgtgcc ctcaggaaaa aaaaaaaaaa aaaaaaaaaa aagggggggg ncccgnctcc 960
```

<210> 803

<211> 708

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<400> 803

```
cgagattggt gttggctgaa catcttttaa ttctgagtta ccaacacggt gtgcgtgcat 60
tgatgacccg gcttcctggc ctgcccttgg tgctgagcc ccagtaatga ttgccctcta 120
tggtgggaga agaagggaga aagtagtaca agtagtgaag aaaaaaatgt aggtggtggt 180
ggtgggtgag agtacatggc acagaaaata aaggagccag gattacctgt gcctttggct 240
tctccttccc ctgctgcttt ttcttccttt ttccatgtca gtgcttggga accctcacia 300
ctggcaggta acggggtcgg gataaaatgt aaacctgtgg gtgtcttctg ctgagtcatt 360
aggatctttg tagcaggctg cggataaata tgtggatgac atggggcaac taagagcccc 420
ttttgcttgc cacctcccac ccctgctctg gatgggtgtc cctcttgcta gactgccggg 480
tacagatcac gtggcaatta aggcaaatgt taataaatac catgaaacag tggtttgcac 540
agtcttctga atagccatgg ctttggttar tcagcaacaa agcctttcac ccttaccctg 600
gataatcaag agttgacaac agccagaaag tactgggaat agtggctttt ggccatgaca 660
tttctcattc ttcattcatg taatgggtca antcagaagt aattctgg 708
```

<210> 804

540

<211> 588

<212> DNA

<213> Homo sapiens

<400> 804

```

gaattcggca cgagggtaaa ggaacagttg atgataagga actgggtaaa gacataacct 60
tgtatagcca cacttattct catgcacatg taattttwaa ctgtratgga tagagtttgg 120
cgttccaggg agcatcgata gcactgcacg atgaccttgc tcttggtgtg cttagagatc 180
tgccgacagc cggctcagtt ccatcttcag tcattgtgtt gcacagtgat acgatcattg 240
ctggtctaaa cattgccata aacatgtctg ttccccaagc tgaaaggggg tttctgattc 300
taagggaaca aaagggttttc tggcttaaaa gacttaagac atagtcttat aatagcttct 360
ttaaaaaattt cagtgggtta taatgcatag gggtttttaa aaagagcyaa tgtgcaatat 420
atacaatagt ctatcctact gacccaactt ctcccttcca gttctcccta aggacaattg 480
ttaatcagtt tcctgtawac ccttccagaa atatatgcag awgtggcawa tgtccaatta 540
aagaaacctg atacatactg ttaaaaaaaaa aaaaaaaaaa aaactcga 588

```

<210> 805

<211> 684

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (611)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (644)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (679)

<223> n equals a,t,g, or c

<400> 805

```

ttactgaaag tttatatagt mtagtctatg tagataaaaa gtaccacttg tcttttctgt 60
gaattatgac tattcatttg ttaaaaatac ctaagagcaa ttatagtggg acatctaagg 120
tcctctgtaa acagtgaatt agcaaaccct agcctatgtg tttctaccct gatttttttc 180
ttttcatggg tatctgaagc ctctaagttt tttcaaaaat ggagtatcac aaaattgagt 240
gaaacacaat acttaatgta ttgtactaga ttgccaaatt cataaaatgt taatggaagc 300
tttttgatgt gattataatg gcactattct ggtcattatc ctattttgat tttatttaat 360
tttttaaagt tgaagaatta aatattttta tggttctaatt cttttgcatt ccattgttgc 420
ttaaacctgt ttatatgagt agtcttctgt tagaatcaca tctgtgcttt tcttgagtct 480
gctgttgaac tattagatta agtcataatt cataaaattt tagtttaatg tgctctttgt 540
aaaatgaaat tgtaaagaaa ataccagtgt ttctcatccc attgactcac accacgggtca 600
tctgggattt ngggattccc tccakgcagc cagctawagt gggngtttcc caaaacaaca 660
gggaatccct tcacccatng gggg 684

```

<210> 806

541

<211> 1204
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1033)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1050)
<223> n equals a,t,g, or c

<400> 806
tggngctcca ccgcggtgac gaccgctcta gaactagtgg atcccccggg ctgcaggaat 60
tcggcagagg cagwgccggc gtgggcggcc ggccgaggcg gaggcgcagg aaggggggckg 120
cgagtcgtgc gaggtgccc ttctcactca gcattatgga tccaagcctg ttgagagaaa 180
gggagctgtt caaaaaacga gctcttttcta ctctgtagt agaaaaacgt tcagcatctt 240
ctgagtcatc atcatcatcg tcaaagaaga agaaaacaaa ggtagaacat ggaggatcgt 300
caggctctaa acaaaattct gatcatagca atggatcatt taacttgaaa gctttgtcag 360
gaagctcttg atataagttt ggtgttcttg ctaagattgt gaattacatg aagacacggc 420
atcagcgagg agatacgcat cctctaacct tagatgaaat tttggatgaa acacaacatt 480
tagatattgg actcaagcag aaacaatggc taatgactga ggcttttagtc aacaatccca 540
aaattgaagt aatagatggg aagtatgctt tcaagcccaa gtacaacgtg agagataaga 600
aggccctact taggctctta gatcagcatg accagcgagg attaggagga attcttttag 660
aagacataga agaagcactg cccaattccc agaaagctgt caaggctttg ggggaccaga 720
tactatttgt aaatcgtccc gataagaaga aaatactttt cttcaatgat aagagctgtc 780
agttttctgt ggatgaagaa tttcagaaac tgtggaggag tgtcactgta gattccatgg 840
acgaggagaa aattgaagaa tatctgaagc gacagggtat ttcttccatg caggaatctg 900
gaccaaagaa agtggccctt attcagagaa ggaaaaagcc tgcttcacag aaaaagcgac 960
gctttaagac tcataacgaa cacttggctg gagtgtgaa ggattactct gacattactt 1020
ccagcaatag ggnacagttt tgctgggan cagagttaca gatacacawt caagagtgt 1080
cttgctgatg ctsggggtct gaagactgtg ctcccaaccg cttcttgagg ctgaggagag 1140
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ccat 1204

<210> 807
<211> 1327
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

542

<400> 807

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ttgtgatttt nctcaggctg ttttgtcatt ttaaaatcca gtggtagatg tagcttagcg 60
acggtagttt tttgttttgg ctatactaag acttggaat tttctctcc agtgtcagcg 120
aatccagaag ggtatcagat taaacaccga attcagccac tggactttta aaagtactta 180
agatggttta tctcgggttt tttcttcagt taacaaaatc ataaatatgg tgccttataa 240
catgaaagga aaattagttg tgtatttcac gacgaaagcg acggaccaaa agaaatttcc 300
tgccccaaga agcatgggat ccaggaaggg gcgcgtagat gcttaacggt ctcttcggaa 360
atcctgcaaa tagaaagata attctagatc cggaatacct gtatctggtg gaaacctatg 420
atctctacaa gctcgaatta ttcctcattg tatagcctgc tttgtaaact agtttacaat 480
ttgcaggctg atcttaagat tttttatat ctaattgctg ctgccttcat tttaggttca 540
gcagttactt ttaactacct taatttattg ccagaaggta tgagcctaac attctgatga 600
gtccagaaaa ctacgttttg tcagtagcaa tacactagga agtaaaatat atttagaatt 660
taaacattgt gtgccagtgg tcctcgcgct tgactgcaca tcagttactt gaagagccac 720
acctcagatc aatgcagtca gaacctggga agtaggtccc agacatcagg acctttttaa 780
agctcccaa gtgattctac gttccccaag tttgaggacc acttttctgt gcattggctt 840
gcacaatttg aaaataatgc ttttcctgag ctggatccca gtgttgctt aacagggtgt 900
ctgtcgtgcc gcagtagagc actgctgctt cctccaaccc caaaatttat gttcctaagt 960
aagtcaggtc cctaagcccc gtcccaagaa gtgacacaag tggccaacat ccacactgta 1020
ggcttgaggc ctaccgccc tgagatttgg taaagaacac tgccttggtc cccatcagta 1080
aacaaggtta cctacctcag gaggtgctt gtgagagagc aaatgcagta tcttcagaat 1140
gatttatatt ttaattaat tgtaaagact tgtgccattg gctgctctt ctagtccct 1200
aaatttctgt tctagtttta aatttctcta gaacttgcaa tagttggggg ttttataatg 1260
atgttttaca atgtttattt cttaaataaa aacttaaaaa ttcaaaaaaa aaaaaaaaaa 1320
aaaaaaaaa 1327
```

<210> 808

<211> 685

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (651)

<223> n equals a,t,g, or c

543

<220>
 <221> misc feature
 <222> (652)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (679)
 <223> n equals a,t,g, or c

<400> 808
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 tgccagtaac tgggtgtctgg ttgattgctt gccactgcag gtgattctga attgctgtga 120
 gggcagaaca cccaaggaga caatagaaaaa tttgttgac agaatgactg aagagaagac 180
 gctgactgct gaggggttgg taaaactcct ccaggctgtg aagacgactt tcccaaacct 240
 gggccttctg ctagagaagt tgcagaaatc agccactttg ccaagcacca caggctcatgg 300
 agaagcttgt gaaacgtgac tctgggttcag gtgggttcaa ttctctgata tcagcagttc 360
 tagaaaagca gactctctct gccacagcca tttggcaact gctgctggtg gttcaggaga 420
 caaagacctg tccattggac ctgctcatgg aggaaatacg aaggagcctg gtgccgatgc 480
 tttcttycgg gcagtgaacca cccagaaca tgccacttta gaaacaatcc tgaggcataa 540
 ccagttgatc ttggaggcca tccaacagaa gattgagtgc aagctcttta cctcgganga 600
 ngagcacctg canaaactgt gaaagagatt ctgagcattc ctctgagaca nncagccctg 660
 aaactttcct gaaaagcant gctga 685

<210> 809
 <211> 857
 <212> DNA
 <213> Homo sapiens

<400> 809
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 cagtgaagccg agatcgcgcc attgcactcc agcctggaca gcaagagcaa aactccgtct 120
 caaaaaacaa aaacaaaaaac aaacaaaaaa attcccctga gagaaaacct gtctttccag 180
 ccagaggagc aggaaaaaat gaccctatgg tctgaagaat gtggaaataa tccatctttt 240
 tttctctctc tgctttctgc ctgaggggagc ttccttttgg caaatgagc aggcagtgtg 300
 ggcaggtaat catcagagag aaagcccatc tttctaagcc agaggatgag gaaaaggggc 360
 cccttggtg ccagggagtc tgggggggaa tcctgaagag caaagacctg aaaagaggat 420
 tctctaattc tgtacatgag ctgaattccg tgctcagccc agagctgcac atacaagaga 480
 cagagcccag gcaacacagc cacactctga actgacactc ggaccaccac caccaaacag 540
 aaggcaacgc aggacctgca gactaaggct aacgaggctg attgcctgac aaaacagaaa 600
 aaaaagaaac attcttcagg gaatttttagc agaacacaga gtctcccaac ataaaacaga 660
 cagtctctac tgcacagcag ttcagaactg taaaaatgac cttccaacct gaaactgcc 720
 tgtgtgtgtc ataataatta atgggtaaaa ttgtgatttt tttcctgtct tttgaaaatt 780
 gtcaaaacat tgataatctt gtactgttag aaatgtataa ggaaacaata aagtaaatat 840
 ttttgtaaaa tgtaatt 857

<210> 810
 <211> 291
 <212> DNA
 <213> Homo sapiens

544

<220>
 <221> misc feature
 <222> (261)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (285)
 <223> n equals a,t,g, or c

<400> 810
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 ctaaagtgtta cctaaaaaat agaaaaacaca accataaata tgcctagtaa ttagcacata 180
 ttttatttca tagaaactga ttcctggctg gacctgggtg ctcacacctg gtagtcccaa 240
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<210> 811
 <211> 965
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (168)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (225)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (965)
 <223> n equals a,t,g, or c

<400> 811
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 aaagagtacg aagaactctt ggcacagtg agagcaaata atcaccagca gcagcaagga 120
 cttcaagact caagttcaaa atgccaggca ttggaagaaa acaatctntc tcttcgacat 180
 acactatcag acatggaata cagactaaaa gaactggaat attgnaaacg taatttagag 240
 caagagaatc aaaaccttag aatgcaggtt tctgagactt gcacaggccc aatgttgcag 300
 gctaaaatgg atgarattgg caaccactac acggagatgg taaaaaactt gagaatggag 360
 aaagatagag agatctgcag actgaggtcc caattaaacc agtaccataa agatgtttca 420
 aagagagaag gaagttgtag tgacttccaa ttttaagcttc atgaactgac aagcttgctg 480
 gaagagaagg attccctcat aaagcgtcag tcagaggaac tctccaagtt gcggcaagaa 540
 atatattcct ctcataacca accctccact ggtggaagga ctactattac cactaaaaag 600
 tacaggacac aatatccaat cctaggcctc ctatatgatg actacgaata tataccacca 660
 ggtagtgaac cacagactat tgtgattgag aaaacagaag acaatacac ttgtccatga 720
 atgggtccac tttaaagtat tacaactcaa agccgttttt tttgtgtgtg tgtgtctctg 780

545

```

cattagtact ttgttatttt tccatcacta aaggccaatc agaatttgga accatgctgc 840
taccaagaa atctaattgga atgaattagt tctgtagatg acaatttctt caccatttta 900
tgagacctaa atctttttcca taacactcat gtattcagta twacacatac taactggaag 960
agggn                                           965

```

```

<210> 812
<211> 1561
<212> DNA
<213> Homo sapiens

```

```

<400> 812
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ccatggctac cacttcgaca cagcctctcg taagaaagcc gtgggcaaca tctttgaaaa 180
cacagaccaa gaatcactag aaaggctctt cagaaactct ggagacaaga aagcagagga 240
gagagccaag atcatttttg ccatagatca agatgtggag gagaaaacgc gtgccctgat 300
ggccttgaag aagaggacaa aagacaagct tttccagttt ctgaaactgc ggaaatattc 360
catcaaagtt cactgaagag aagaggatgg ataaggacgt tatccaagaa tggacattca 420
aagaccaagt gagtttgtga gattctaaca gatgcagcat tttgctgcta ccttacaagc 480
ttctcttctg tcaggactcc agaggctgga aagggaccgg gactggaaag ggaccaggac 540
tgaacagact ggttacaaaag actccaaaca atttcatgcc ctgtgctggt acagaggaga 600
acaaaatgct ttcagcaagg atttgaaaac tcttcgctcc ctgcaggaaa ggattgatgc 660
tgatagaaga gcctggacag atgtaatgag aactaaagaa aacagatggc tggagatgac 720
atztatccag ggtcactttg tcaggcccta ggacttaa atcgaagttgaa cttttttttt 780
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catgcataaa ttgtttactg aatttttata tctgagtgtt caaaatattt ccaagcctga 900
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gagtagtttt atattaatta ccaaactttt tcaaaacaaa ttcttacgtc aaatatctgg 1500
gaagtttctc tgtcccaatc ttaaaatata aaatatagat atagaagttc aaaaaaaaaa 1560
a                                           1561

```

```

<210> 813
<211> 941
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature

```

546

<222> (11)

<223> n equals a,t,g, or c

<400> 813

```

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cgagacttcg gagactgcag ttgcagttgt tccgtgtagg ctgttggtga ctctcgtagt 120
aaagcccacg cgatccaagt gccctgcagg ttttgggtcca gggaaaagtt ggtctctgca 180
gatgactgta aatgactacc tggaggtcga ttaaagtgcg gtactgcggg attcagccga 240
tttccttctt cctctgactg cccggaaata tcagccaaag gccagcgttc taaggacata 300
tggaaattggc tatggataat tcatatgctt tcaatcaacg aagcacatgt aatggaattc 360
catctgagaa gaaaaacaac ttccttgtat cagaagatca tggacaaaaa atcttaagtg 420
tactacagaa ttttagagaa caaaatgtct tttatgattt caaaataatt atgaaagatg 480
aaataatccc gtgtcactgt tgtgtgtagg cagcatgcag tgactttttc agggctatgt 540
ttgaagtaaa catgaaagaa agagatgatg gaagtgttac cattactaat ttgtcctcca 600
aggcagtaaa agcattttct gattatgcct atactggaaa aacaaaaata acagatgata 660
atgtggaaat gttcttcacg ttgtcatcat ttcttcaagt ttccttccta tccaaagctt 720
gcagtgcact ttttaataaaa agtattaatc ttgtmaattg tttacagtta ttatctatat 780
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tttctttatt atttaaatcc agtgatttct tagagatgaa ttttggagta ctacagaaat 900
gtctggaatc agatgaatta aatgttcctg aagaagaaaa a 941

```

<210> 814

<211> 3692

<212> DNA

<213> Homo sapiens

<400> 814

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gctcgtgccg aattcggcac gagagactga cgagtgcggt gtcgctccag ctacagagctc 60
ccggagccgc ccggccagcg tccggcctcc ctgatcgtct ctggccggcg cctcgcctct 120
cgccggcgcg gcaccgagca gccgcggcg ccgagcagcc accgtcccga ccaagcgccg 180
gccctgcccc cagcggcagg atgaatgatt tcggaatcaa gaatatggac caggtagccc 240
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ggtccctgtt tgctgttttt cttctcttaa atgaagagca aacactgcaa gaagtgccaa 360
caggcttggg ttccatttct catgactccg ccaactgtga attgcctttg ttaaccccg 420
gcagcaaggg tgtgatgagt caagccttaa aagctacctt cagtggcttc aaaaaggaa 480
agcggcgccg gggcattcca aagaaccctt ggctgtggag tgagcaacag gtatgccagt 540
ggcttctctg ggccaccaat gagttcagtc tgggtgaaagt gaatctgcag aggttcggca 600
tgaatggcca gatgctgtgt aaccttggca aggaacgctt tctggagctg gcacctgact 660
ttgtgggtga cattctctgg gaacatctgg agcaaatgat caaagaaaac caagaaaaga 720
cagaagatca atatgaagaa aattcacacc tcacctcgt tcctcattgg attaacagca 780
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cagacaaatc ctgccagtca ttcacagct ggactggaga cggatgggag ttttaagctc 1380
ccgacccccg tgagggtggc cgcgggtggg gaaagaggaa aaataagccc aagatgaact 1440

```

547

```

acgagaagct gagccggggc ttacgctact attacgacaa gaacatcatc cacaagacgt 1500
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ccgaggaact gcacgccatc ctgggcgtcc agcccgacac ggaggactga ggtcgccggg 1620
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```

<210> 815

<211> 1427

<212> DNA

<213> Homo sapiens

<400> 815

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tcgacccacg cgtecgccca cggcgtccgc aaagcctgag tctgtcctt tctctctccc 60
cggacagcat gagtttcacc actcgctcca cttctccac caactaccgg tccctgggct 120
ctgtccaggc gccagctac ggcgccggc cggtcagcag cgcggccagc gtctatgcag 180
gcgtgggggg ctctggttcc cggatctccg tgtcccgctc caccagcttc aggggcggca 240
tggggtccgg gggcctggcc accgggatag ccgggggtct ggcaggaatg ggagggatcc 300
agaacgagaa ggagaccatg caaagcctga acgaccgctt ggcctcttac ctggacagag 360

```

548

```

tgaggagcct ggagaccgag aaccggaggc tggagagcaa aatccgggag cacttggaga 420
agaagggacc ccaggtcaga gactggagcc attacttcaa gatcatcgag gacctgaggg 480
ctcagatctt cgcaataact gtggacaatg cccgcacgt tctgcagatt gacaatgccc 540
gtcttgctgc tgatgacttt agagtcaagt atgagacaga gctggccatg cgccagtctg 600
tggagaacga catccatggg ctccgcaagg tcattgatga caccaatata acacgactgc 660
agctggagac agagatcgag gctctcaagg aggagctgct cttcatgaag aagaaccacg 720
aagaggaagt aaaaggccta caagcccaga ttgccagctc tgggttgacc gtggaggtag 780
atgccccaa atctcaggac ctgcgaaga tcatggcaga catccgggcc caatatgacg 840
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tggtgtctga gaccaatgac accaaaagttc tgaggcatta agccagcaga agcagggtac 1380
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```

<210> 816

<211> 425

<212> DNA

<213> Homo sapiens

<400> 816

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aagctggtac gcctgcaggt accggtccgg aattcccggg tcgaccacg cgtccgctga 60
tgacaagaac gatgaaaaat gcatgaaagt tgacttagta tcttttcac ttcacctatt 120
atggttgata atgatagctc tggtagaagt gataaggatc atagtgaat acttgatgga 180
attagtaaca taaaactgaa ttcagaggaa gtaacacaga gccattaga ttctgtaca 240
agtcgatgat gtcataca gctaagtga gttagtagca aaagagagt ccctgcttcc 300
ggccaaagtg aaccacgtaa tggaggaacc aatgaggaaa gcaactcatc ggggaatata 360
aacacagacc caccagctga ggattcacag aagtcttcag gagcraacca agcaaagaca 420
gacca 425

```

<210> 817

<211> 375

<212> DNA

<213> Homo sapiens

<400> 817

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gtaccgggtcc ggaattcccg ggtcgaccca cgcgtccggg gaggtctagg aagatcctga 60
cacataagaa ctttggttta gagagctttc cagggtgtagt gccataaaa actgacctgg 120
aaagaaaacc tgcccagcac ggaacatgct ttctgaactc acttgagagt gtatggtgta 180
tgtcacttct catatattct tgagtttaga tttgtctttt atacaatttt tagctctttt 240
ccagttcact tgtgctcgtc tgtatatagg tattttttaa tttttgtggt aaataatgaa 300
aagagtgaaa ttatatttta taattactca tttgtagttt tttttttaat ttaataaact 360
tcctccaaaa agtgc 375

```

<210> 818

<211> 1216

<212> DNA

549

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1215)

<223> n equals a,t,g, or c

<400> 818

```

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gaaatctctg caggcaagtt gctccagagc atattgcagg acaagcctgt aacgaatagt 180
taaattcacg gcatctggat tcctaatacct tttccgaaat ggcagggtgt agtgcctgta 240
taaaatattc tatgtttacc ttcaacttct tgttctggct atgtgggtatc ttgatcctag 300
cattagcaat atgggtacga gtaagcaatg actctcaagc aatttttggg tctgaagatg 360
taggctctag ctccctacgtt gctgtggaca tattgattgc tgtagggtgc atcatcatga 420
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aagttttaca agagacctgt atttctttca taaaagactt cttggcaaaa aatttgatta 840
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catattgaac acattttaaga tttgagggat ataagggaaa atgatatgaa tgtgtatatt 1140
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ayccarctta ctnnnc 1216

```

<210> 819

<211> 1304

<212> DNA

<213> Homo sapiens

<400> 819

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aaaaaaaaaa aaaaaaaatc taagatagag gtttggtcaa cagtgtttaa taataaataa 60
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attgatataa gcagtattaa cacagtataa agaatgttca ccttgcatat gtcatttcag 180
gcacatggat tcaggagaag cacagttgag tggaagaaat ggtagacttg tgaggcttgc 240
cccaggcctt gtgtacacgc aataagtggt gagccatggg tctctccgtc agcgcctccc 300

```

550

```

tccccgccac cacttcaggc caacaattta aggtgctgag ttgtaaggct cctccattgt 360
cagtacaggg ctcgcctttg tagccctgat cactaccagt acacttttca agacaactga 420
gtatttttgt atgcctttgc cttccctttg tccatgaaac atgaagagtt gtttatgggt 480
cttgacttct ctgagcagag tgtctgcac tcttggagag ttacacattt cttcatgagc 540
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tattttcctg tctgtcaaag acagaaatta caggagatag ggaggggttt ttagcatctc 660
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ggatcttttc tagagatcct gggtgacttt ggggtgcacag ggtgaccgag catttctgcc 1140
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tcttctcatg ttactgggtt tgtaaatgaa taaacacatt ttaactactc ttgcacggct 1260
gcttgtgaaa aaaaaaaga ataaaaaaa aaaagtttgt cgac 1304

```

<210> 820

<211> 994

<212> DNA

<213> Homo sapiens

<400> 820

```

gcggccgcag agactgggtc gccttggatt cctctgcct ccgaggaccc caaaagacac 60
ccccaacccc aggccagccg gccctgctct ggcgcgcca aaatactacc tagcacaggc 120
ctctgctcga ggcaccccca aactacctat gtatccagcc ccagagggcc tccattccca 180
ggaagtccct atgtatccca acactggcag acaccagca ccacctccc agaccgcaa 240
gaaagtgaat ctactacta cctactcccc taaaactacc tattttgtgc tggctggctt 300
gcctgtacc tagtgccgac tgctcccagg caagtccct gctgcttaca gcccgcagct 360
tttgggggtc ctgaggctgc cctgagaatg tctgaggtc caggatcagg gtattggcat 420
ctatttaaat cgaaaaataa tatatttatt ccaaaaagca tcctaagtgc ttgcacccta 480
gaatcaatcc ctcccttctt ggcttggcac ccacagctca ggcccatcaa cccccacttc 540
wggaggggaa tgttcctgag ctggctgcag atctgtgggt tagcttctgc ttagcaggag 600
tgtggagatg cttccagctt cgctgtcctt tcctctggct cctgtatctt actgttcagc 660
tgtgttaaat atgtacgccc tgatgttttc tataatagca gatactgtat atttgaacaa 720
gatttttwtt tatcatttct atagtcttg agttcatttg taaggcagtg tcttgacttg 780
gaaaggatgt gttaatgggg tgactttgta gcatggatg ttgtcttgag ttaactgtag 840
tgggtgggga ggtccaatgc cctccgcaat gcccttcac tcctgtgttg tcctgtaccc 900
tgctcagctc catcctgggg ttcagggaag gcacacttcc cagcccagct gtgttttatg 960
taaccgaaaa taaagatgcg tggtgacaaa gaaa 994

```

<210> 821

<211> 498

<212> DNA

<213> Homo sapiens

<400> 821

```

caataggaac gtcaagtttt gcaaatcatc ctccagctgc aagacttttt ccagctaaca 60
aggaacgtga agaaatwcag actttaaaac agcaawtrgc agwtttacgg gaagatttga 120
aaagwawgga rwccaaatgg tcaagtacac acagccgtct cagaagccag atacaaatgt 180

```

551

```

tagtcagaga gaacacagac ytccgggaag aaataaaagt gatggaaaga ttccgactgg 240
atgcctggaa gagagcagaa gccatagaga gcagcctcga ggtggagaag aaggacaagc 300
ttgcgaacac atctgttcga tttcaaaaaca gtcagatttc ttcaggaacc caggtagaaa 360
aatacaagaa aaattatctt ccaatgcaag gtaagaggct gcatgatctt ttataaaaac 420
atttcagaat gtaaggaata aacaatttat acccaactta ataaaacatt tcttaataaa 480
tgtttttgaa catttgaa 498

```

<210> 822

<211> 796

<212> DNA

<213> Homo sapiens

<400> 822

```

accatgatta cgccaagctc gaaattaacc ctactaaag ggaacaaaag ctggagctcc 60
accgcggtgg cggccgctct agaactagt gatccccgg gctgcaggaa ttcsgcacgm 120
gggtcraggta atgaatacat acatttttct gtgataaaac tcttaaaagt taattttaat 180
gtattaatag tattcctaata gtgtgctgca gaaatggcta tgagcctctt aaatttacat 240
ttgcaactta aaggtagttt tagaagggaag tacaaattgg ctttcatctt gcaaacaatc 300
gttttttact tcattatctt aatttgcttt gtcactcata aaaaggaaac catacctgag 360
ttgtagacaa tgaggaaaca cttgaggctt ctgctgtgtg ttcttttgtt attgttggtt 420
ttgttggttac tcagtaactt gaatattgtt taatgtgttg taagacgtag agtttatctc 480
aagctgttaa aaatggtaat gtacaaatgt gaatagacac ttatctatat aatatgggta 540
agttttgttt cgcctataat agatgtttat aaaaacaagt gaggggacag ttggtctttt 600
tatcttttct ttctttttct ttcttttctt tttttctttt tttttttttt tttttttttt 660
gcttccacag gttgcactat tgaaaaatcg agattgtata aacctggtaa aaagctgcaa 720
gatgccaaaa tcttgtagat gtcaataaaa aagttattat actaaaaaaa aaaawaaaaa 780
aaaaaaaaaa aagcaa 796

```

<210> 823

<211> 503

<212> DNA

<213> Homo sapiens

<400> 823

```

aatcgctgaa ccaggagcgg agttgcagga ggagaytcac cactcacttc agcctgggtga 60
cagrgggagc tctktcttaa aaaaaaaaaa aaaatcatct gtaaaataaa ttccgggata 120
gtcgttttgt tcaaggaaat gttttgtaaa ttgagctcac actatataat ctttattgtc 180
ctatcctgat gtataatata gcaggataaa ttacaccaag cgctatagtt ataaatatgg 240
catgaagtga actatggcct tttatttctt tccagtgtga acacagcagg tgtgagatgt 300
catcttggaa gacaggcctt gcagaaatag gcctacatcc aaaatattat cttgtgactc 360
catgaaccat tcattaaccc tttgtatctt tgagtgaaaa ttttactcaa aagttgcatc 420
tggaagtctg aagaaattac ttgaaataaa aataaagatt tctatataga taaaaaaaaa 480
aaaaaaaaatg cggccgcgaa ttc 503

```

<210> 824

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

552

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<400> 824

```

gctggcncgc ctgcaggtac cggtcgggaa ttcccggggtc gacccacgcg tccgtttgaa 60
tcctttatta tttttaattt tagaaatata acagttcaca tkgcaatatt ccctttaatt 120
tactattttt aaaggggtat tgtaaatatg aaagtattta taaagtgaat tgctattttt 180
tctgttcaga aaagtacaca cttaaaattg ttattgttaa caatgtgtaa acacatttaa 240
aattgttatt gttaacaaag aaatcatgga gaactgtaga ggttttcaca gtggatccat 300
tttctgacag ttttctacta tctattaaat catatctgct taaatatata gcttctatct 360
gtcttttaaat cttctcatta aaatgtataa gcagtgaytt tgatctcaaa aataggtaat 420
ttttctttgc cgacctgtaa aagtgtgcca atacactaaa tttgtgattt taaattaatt 480
cctccagctg ttgaaatgaa gtctgccaaa tcttgctcta acaaataaaa tgttatyttaa 540
atgaaaaaaaa aaaangcgcn ttaagaccan tactcctctc acgctctt 588

```

<210> 825

<211> 965

<212> DNA

<213> Homo sapiens

<400> 825

```

tgtttttatt tttaaactat caatgttggt taaaataatc atgtacttgt tgagttcctg 60
aggtttgga caaattacac ataaaaattt gaatacttta tttctgaaaa gcatatacat 120
atatgttatg tttatttttc cttgttgatt agaaagggtg tggaatatgt gacaatgcaa 180
aatkaattga taatttttct gtatttttgag tgaaagttgt ctgtaatatg tcaagcaaga 240
atgttataat tctacagtaa tgtgtgactt catgacagag ctacattctg agaaatttgt 300
cattaggtga tttcatcatt gtgtgaacat catgaagtgt acttacacaa acctaggtgg 360
tagagcctac tgcacacctg ggctagatgg caaagtctgt cgcttctggg ctacagacct 420
gtacagcatg gtactgtatt gaatactgta ggcaactgta acacaatggg atctgtgttaa 480
tctaaacata gaacagataa tacattgtgc tacaatgtaa caatggctgt ggcatcacta 540
ggtgatagga atttttcagt tccattataa tcttatagga tctctgtcat atgtgggtcaa 600
ttgttgatcg aaacatgact gtatgtcgta ttttcagaaa atggaatagg taatcatcac 660
ttgtgtgaat tttaatcaaa tgacttagga aagaaactgg atgtttcaaa agctgttgca 720
tttattacaa atgtcacaaa tacagctctt gccttttgag aatgttgagg agatgtcttt 780
aaaaaatatg tttgtgtgta aaaatgtgtc tgtatgcaat agctagaaaa atgcctgtgt 840
cttaagtcatt tactcatggt ctaatttttg ttctttgtac tatttatctg tatgcttggt 900

```


553

cttcagtatt tcagactcaa aataaattta tttttttatg ttataaaaaa aaaaaaaaaa 960
 aaaaa 965

<210> 826
 <211> 454
 <212> DNA
 <213> Homo sapiens

<400> 826
 agtggcaggt gtgtggccct gccctggccc cgtagtgagt gtggggccca cctgtgccct 60
 catgggcagc tgaaggggga gctttctacc ccaggttcct ttccttactg aaaagtcttg 120
 agcaaacagt tgccgctctc cccccctgc tttttaaaaa aaatttttct tcacgtaaga 180
 aaatgttatc tgtgtgctgg ggaaaatttt gaaaataaca aaaaccagaa tacaaacacc 240
 cataatcaat cacagagata accactgttc ataattcctt ccagtcttct tacttggcac 300
 atatacatct gtctttcttt atatatgaca tatggatatt ttacaaagt aggatcctac 360
 tctatgcact gcttgggtgat cggatctatt caatgtacaa aatattttga aagtttctgt 420
 gattaaatgt tctttgaaaa cataaaaaaa aaaa 454

<210> 827
 <211> 754
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (83)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (502)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (752)
 <223> n equals a,t,g, or c

<400> 827
 actatagggt aagctggtac gcctgcaggt accgggtccgg aattcccggg tcgacccacg 60
 cgtccgggtct ttggattcta atnaactcag catcaatttc tcacctcaga ctacagtga 120
 tttttatttc ctatcagctg aaatattttca cagatggaag ctcatgtttc agtttttaag 180
 actgccttga ataaacaagt tgttgccact tgtttcaaac aaaagcctaa aaataatcta 240
 cattcaattt taggctccat tgactaatat ggtgttgctt ttggaagtac tgtatatcct 300
 cacatggaag ccaaattgtt aaattatttg aaggacacac cactgtacag aaagtagtgt 360
 ttcaaataata aatcgaagaa caaagagtgc tccaaaaaat aggtcattct tttattttca 420
 taaagtatct aaactgtact aacattcagt gttgtgtttc attctaaatt tgcagctgaa 480
 ataaatttat ttgcgatarg anaatatctt attattcatc ctcagaaata aaggatttga 540
 agggatagag atttatatgat aaatttatag aagactttca gaatttgaat gcattttgtt 600
 tagtgttatg aaatgacaat agggaaaaag tctcgacttc aatttaaaag ttacacaaac 660
 aaacaaatct acaggcmtgt ctttatatac cctcagggtc ttaggttttc caaaggaaat 720

554

ttgttgggat ataacttggc gggtaactc cntt

754

<210> 828

<211> 1437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1435)

<223> n equals a,t,g, or c

<400> 828

```

aaggggagat catctgagtc caccacaccc ttgaatgttt cccgcgagac tcttcagcaa 60
cataaactgc ttaaggtgat taggaagaag cttgttcgta aaacgctgga catgatcaag 120
aagattgctg atgataaata caatgatact ttttggaag aatttggtac caacatcaag 180
cttgggtgtga ttgaagacca ctcgaatcga acacgtcttg cttaaacttct taggttccag 240
tcttctcatc atccaactga cattactagc ctgaccagt atgtggaaag aatgaaggaa 300
aaacaagaca aaatctactt catggctggg tccagcagaa aagaggctga atcttctcca 360
tttgttgagc gacttctgaa aaagggctat gaagttatctt acctcacaga acctgtggat 420
gaatactgta ttcaggccct tcccgaattt gatgggaaga gggtccagaa tgttgccaag 480
gaaggagtga agttcgatga aagtgaagaa actaaggaga gtcgtgaagc agttgagaaa 540
gaatttgagc ctctgctgaa ttggatgaaa gataaagccc ttaaggacaa gattgaaaag 600
gctgtgggtgt ctcagcgcct gacagaatct ccggtgtgctt tgggtggccag ccagtacgga 660
tggcttgaggc acatggagag aatcatgaaa gcacaagcgt accaaacggg caaggacatc 720
tctacaaatt actatgcgag tcagaagaaa acatttgaaa ttaatcccag acaccgctg 780
atcagagaca tgcttcgacg aattaaggaa gatgaagatg ataaaacagt tttggatctt 840
gctgtggttt tgtttgaaac agcaacgctt cggctcagggt atcttttacc agacactaaa 900
gcatatggag atagaataga aagaatgctt cgcctcagtt tgaacattga ccctgatgca 960
aaggtggaag aagagcccga agaagaacct gaagagacag cagaagacac aacagaagac 1020
acagagcaag acgaagatga agaaatggat gtgggaacag atgaagaaga agaaacagca 1080
aaggaatcta cagctgaaaa agatgaattg taaattatac tctcaccatt tggatcctgt 1140
gtggagaggg aatgtgaaat ttacatcatt tctttttggg agagacttgt tttggatgcc 1200
ccctaattccc cttctccctt gcaactgtaa atgtgggatt atgggtcaca ggaaaaagtg 1260
ggtttttttag ttgaattttt tttaacattc ctcatgaatg taaatttgta ctatttaact 1320
gactattctt gatgtaaaat cttgtcatgt gtataaaaaa aaaaaagatc ccaaataaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aananaa 1437

```

<210> 829

<211> 973

<212> DNA

<213> Homo sapiens

<400> 829

```

gtgaaacaac aacaacaaca acaaaatgta gtcttaggaa gcagcaagtt cactgacttg 60
ggatctttat gacagttttg ttgttgccat tgatattggt ttgtttattt tttgttttca 120

```

555

```

gatgagaaag ttttctacat gttatctttt ttctaggagc tcaaagtgta catcattcct 180
ttattatagc taggtttact gactcatata ctaaggaagt agctaaaatt ataaaaataa 240
tttggtttta aaaccatatt taactaaggg aactaagtaa gttccaatga gcagtgggtct 300
catgcragggt attttcaata ttttaaaaatt tacagatgaa tatttaataa tattataaaa 360
gtttttaatca gctatctcta agaaaaatca tttcttaaag ggaaatgaaa ttcacttgac 420
tttaataaaa acaaatgaac tcatttcatg tttttaacta ttatctaact cttccttact 480
ttatgrtgct ggcaagctgt tgagagcctt gacatctcca tctgcagaaa aatcacagtc 540
ttagaaatcc tattaatcgt gtgaggtagc tgggtcatag tagcagcttc atgcagtgtt 600
aaaattatat gatgattata tgcagtaaca gatgaagaaa aaaagaaaga aagcaggaga 660
aatgcaccac ctcatcattt gtaaatgcag tatagttgat tttttaattt gttttatgtc 720
ctctagtgat ctaagcatga agcttgaatt attataataa agaaaataaa tgcaatgcag 780
ttgggggatgg caaatgttaa tgcttatctg tatcaaagac taacactgtc ttcaggatta 840
tccttggtgg attatccttg gcagacactt aatgagcaga gagaagctac aatgttgaag 900
gacaaaagtc ctttgtcatc ttattatcga aataatgttt aatacaataa aactttttta 960
attaaaaaaaa aaa 973

```

<210> 830

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (789)

<223> n equals a,t,g, or c

<400> 830

```

gccattcttg aggaaatata gagatgacat gttttcaccc caactatctg gtgctattga 60
atgactaatt cagtccctaa agttctgtga aaacacaaaa gtctaattgat ttgagtgagt 120
aaaaggtaat ggtgcatttg aacaagtaaa tgctgtcgtg gtcagcaaga tccgkgattt 180
gaacatgtga tgactggaaa aaggtttggg ttatttggaa ctctggctaa aacttctttc 240
gggtgacatg tgatcgttta aatggcatta agtgaataaa gcacacagac agtgctactc 300
ttgaccacta ttttaccatt tctttgcaaa cagtgttcac attttcatat tttttcccta 360
actaaaccac caaagaaaga cattttgtat gtatatacag tgtgtgtgta tacaaaatca 420
tgatatagta gaatgcaact actttctttt tctaccaaac gaaaggtttt atttgctgtg 480
aaataaacca gaagttaaaa aaacctgtga gtgattaagc atacttaacc actccttatt 540
tgtagattca ctttcaacct taaaaattaa taccagtttg cataaaccaa tatctgaaaa 600
gaacaggaaa tgtaaatgnc aagcaacagc tattaatact gatgtgaatg gatgcatttg 660
ttttgcagtg gtgactggcc taggcaggtt tgggatctgt gaaagaattg attcattttc 720
aaaattattc cataaagtta aaaagttaca ctttaaaggc aacagggtcat acagttcttt 780
aaaatctgna tccaactgta gctttattta aaag 814

```

<210> 831

<211> 611

<212> DNA

<213> Homo sapiens

556

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<400> 831

```
gcggaaatat tccatcagct tttcaaagcg gtgctgctcc ccacacacct gggtaagggg 60
aatggctctc actgaggccc agtgacacac gtcctaagct accttctggc tgccacacct 120
gtgcttcaac aggtctctct ccagttaatt ctaagttgag ccacgtcact cttctgctca 180
naacctccac tccctctcaa tctccactc tccctcactt tttccactct ggccacactg 240
gcatectggc acattccmac ccmagggcct ttgcacttac tgttccaact ccctggagtg 300
ccctcactcc cacaccaagt cccttgcttc cttcacagct ttgctgaaat ctcacttgct 360
cagtgaggcc ttccctgacc accctgcaac caattccccc tccctctgca acattgctgg 420
cttttttctc ayagcattta tcatttcccta acatactatg taatttgctt gtttattata 480
tcgtttctgt ctttccctat atggtttcct ttgttcaactg atgtgcccaa gtgccctgtt 540
cctgacacat agtaggcact caataaatat tcattaaagg aatgaatgaa tgaaaaaaaa 600
aaaaaaaaaa a 611
```

<210> 832

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 832

```
ccaatttnca caggaaacag ctatgaccat gattacgcca agctcgaaat taacctcac 60
taaaggggaac aaaagctgga gctccaccgc ggtggcggcc gctctagaac tagtggatcc 120
cccgggctgc aggaattcct tttttttttt tttctgagac agggctctac tctgttgccc 180
tggtctggagt gcagtgggtc aatctcagct cactgcagcc ttgagtcagg ctcagggtgat 240
tctctcacct cagcctccca agtagctggg accacaggcc cacaccacca agcccagcta 300
attttttgta tttttaagta gagacgggtt tcatcatgtt atgcaggctg ctctcaaact 360
cttgagctca agcgatctgc tggcctcagc ctcccaaagt tgggattata ggcgtgagct 420
accagatttt ttcttattaa tctaataatt ctttgtatag tcttgatatt atccataayg 480
tgtattgcaa atatcttctc taactctggc tttgactggg tatggtgtcc tttttttttg 540
gggggggggtt tttgaaacag ggcttgctct gtaccagct ggagtgtg 588
```

<210> 833

<211> 436

<212> DNA

<213> Homo sapiens

<400> 833

```
gtgagaagcc attctcttct tttactagta tgaagtcac agacgtcttc tccagcaaag 60
gaatgacacg ctgggggggaa tttgacgac tctatcgtat tagtgagctg gacaggaccc 120
agattcctat gtctgaaaaa aggaattccc aggaagacta tttatcttat cacagcaaca 180
ccctgaagcc acatgcaaag gatgaaccag actccccagt gctctataga accatgagtg 240
```

557

```

aagcagctct ggtgagaaaa aggatgaagc ctctgatgat ggacagaama gaaagacaga 300
aaaatagagc ctctattaat ggacacttct ataaccatga aacatcaatt ttcattccag 360
cctttgaatc asaaactaag gtcagagtam acagtamcat gagaactgaa gaagtaataa 420
agcaacttct ccaaaa 436

```

<210> 834

<211> 1090

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (184)

<223> n equals a,t,g, or c

<400> 834

```

aattcggcac gagcctgcct tggcctttca aagtgcctggg attacaggca tgagccaccg 60
cacctgggcc ttctaacgtt ttttcatcat agtcccaaaa accaatactt tacaagtggg 120
tttggaagg caccactttt gtggcatgtt ctggttggga gagggagtca cagttcctac 180
tccnccccacc agctatgctt ctgctctgag aagggtggta tttatacaaa catggacata 240
ctcactccca agggctgatg agatgctgaa ttttctttgg gggcattcat taattgtccc 300
agctgcagcg actggagcaa gtctggaagc tgcctgtgct aagaccaccc agctgtccct 360
gggtttctcat cctagggcct tctttgcttc cagggtcaggg gacctgcttc aatgagaaaag 420
caactgaatt gaggctagga gaggtaggga gagctgagtt ctgacttcac ctgtgcagaa 480
ctctctgccc ccatgttacc tggactggaa cagactgtga atatagcaga aggttccaag 540
aactctggtg tctgacctag aagaggcaca gttctctcta ctggaaagaa aacgatgtag 600
ccgattgcac aaggggtgcca agggaagacc caggatggcc catcaaagga acctggggga 660
ggatgcagga ggctgaaggg atgcacctgg catttctctc actgtgctct taccgcatca 720
gcaacccccca actttttgggc ctactctgcc ccccatgctg gaataccctg cttggatgct 780
gtgcttttcc ggtttgtctc taagccccct tctccagggc atgttggttt ccttggcctc 840
tcagtgtcct aactggagcc cagagtgcct tgttctgagc caggagacgg ctgagcactg 900
gccctccaca cctaagcgtc ctttacatta acttattggg cttgtataac acctggtgcc 960
attgccaagt ggctgtgtcc tcagctacag agctggaatt gtgtgggggt tagtgctaaa 1020
tacttcaata aagtctgttt tttgtgattg gctgaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa 1090

```

<210> 835

<211> 960

<212> DNA

<213> Homo sapiens

<400> 835

```

gggcactttg ggggcggtgg aattcaagac gctctggctg aagattcaga agtatctggt 60
aactctcttt tccttctggg catcctctcc tctgttctaa tcctccctta cactcattcc 120
tgggtccattg tattctgacc acatccttaw tcatgggtcaa aactattgag tcctgggcac 180
attgggtcatg aaggaacaag aaggcaatga gagactctca tgccaaccac tgccctgaaa 240

```

558

```

gccctgctgt tcagacagca aaggggcccag cactggccaa gctcttatgc ttgctctgaa 300
accttcttgg gaggagtcaa taggggtctcc ttttgaaagt gtccctggcc ttttgagaaa 360
gcagtgtggt ggaggagat gggtctggca ggggcgtgaa tgggtgtttt ctacttgagg 420
tttctttcct gctttaggag atctattggg aaactgatta taaccactcg ggcaccatcg 480
atgcccacga gatgaggaca gccctcagga aggcaggttt caccctcaac agccagggtgc 540
agcagaccat tgccctgcgg tatgctgca gcaagctygg catcaacttt gacagcttcg 600
tggtctgtat gatccgcctg gagaccctct tcaaaactatt cagccttctg gacgaagaca 660
aggatggcat gggttcagctc tctctggccg agtggctgtg ctgctgtgtg gtctgacctg 720
gggtttcggg catcagtgac actccctgcc cactgcttg cttctgttca ccccttctct 780
acaattttgt gaacatttat gctccagtgg cattcactgg ttgttcatac ctttcttgcc 840
ctgggtctat ttcagcagca ctgagctatg agctatgtaa gccgacctgg tggggccagt 900
ggagggaag caatcaatta aagttgtgag ccagaawaaa aaaaaaaaaa aaaaaaaaaa 960

```

<210> 836

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<400> 836

```

ggtgagccct gccacagacc tgtgtgacag cagagctggt tggctgctgt atgagtgtca 60
ccggccctgc atttttttct tttttaataa agacagagtc ttgctgtgtt acccaggctg 120
gcctccagtt cctgggggct caagtgatec tcacacctcg gcctcctgag tgggttcagac 180
tgcaggtaga caccaacacg cctggctaatt tttaaatttt ttgtaaagtg ggggtctcac 240
tgtgtcactc aggctgggtc caaactcctg ggctcaaaca atccaccgcg ctcggccagc 300
actttgagag gccgacatgg gtggatcacg aggttaagag attgagacca tcctggccaa 360
catggtaaaa ccctgtctct actaaaaata ccaaaattag ctggacgtgg tgggtgggcg 420
ctgtagtccc agctactcag ganggtgagg 450

```

<210> 837

<211> 1144

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1123)

<223> n equals a,t,g, or c

<400> 837

```

cgcccacgcg tccgagaaaa tctgcctctg tggcaacata tttccttcca ggcgttacct 60
cctgagctta ggggaacaaac tgtccatgag gtcaccacag taggcactgc agaattgcagg 120
aaatggctga gcaggagtcg tactttggga gaactagaat ctctgaacac agtactgtct 180
gctttgcttg cagtatgtaa ttctgctggg gaagctttgg atacaggaaa acaaactgca 240
attatcgaag ttgtgagtca gctttgggct tttttaaaca ttaaacaggt agcagatcaa 300
ccttatgttc aacagacatt cagcctttta cttccactgt tgggattttt cattcaaact 360
ctagatccta aactgatact tcaggcagta actttgcaga cctcgctact taaattagag 420

```

559

```

cttcctgact atgttcgttt ggcaatgttg gattttgtat cttctttagg aaaacttttt 480
atacctgaag ctatccagga cagaattctg cccaacctgt cctgtatgtt tgccttactg 540
ctagctgaca ggagttggct gctagaacaa cataccttg aggcgtttac tcagttcgct 600
gaggggaacaa atcatgaaga gatagttcca cagtgtctca gttctgaaga aactaagaac 660
aaagtgttat cttttctgga gaagactggg tttgtagatg aaactgaagc tgccaaagtg 720
gaacgtgtga aacaggaaaa aggtattttc tgggaaccct ttgctaagt gactgtagaa 780
gaagcaaaaga ggatcatctt acagccttat gcaaaaagag ctgctcagga gttccctgg 840
gaagaagagt acaggtcagc gctgcataca atagcagggg ctttggaagc aactgagtca 900
ctactccaaa agggctcctgc tccagcctgg ctttcaatgg aaatggaggc gctccaagaa 960
aggatggata agctaaaacg ttacatacat actctagggt gaaacttata actaggcaga 1020
actgggtttg atgctttgtc aactgaaaat acttatgtct gtacattttc taacagatat 1080
aaaacaaatt ttgtaaagtt raaaaaaaaa aaaaaaaaaa ttntctcggt cgcgaagggg 1140
attc 1144

```

<210> 838

<211> 274

<212> DNA

<213> Homo sapiens

<400> 838

```

gggagcagca gctgaggcgg ggtggacgtg tgggggggtca accttatgtt tggagcactc 60
aaagaccagc catccctatc tctgtgctcc ttagcatttc ctcagaggat ctaagcgaaa 120
acagagcggg catgagaagt cagacctagg actcccaggc tgtttaccag aaatgcattt 180
catttagaag agcctgtctt agctttgttt gggtaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 274

```

<210> 839

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

560

<400> 839

```

ggaaaaaaac agaaagggac aggtgggtga ggtacaagat gaagcaccac ttttgtgaaa 60
gtggttgaag ttgacaagga catgagggag gctgtgaaga tcaatgtcaa gtgtacgata 120
accagggctc ctcttgaaaa atccaagggg attggccggg catggtggct caagcctgta 180
atcccagtac tttgggagggc caaggagggc ggataacctg aggttaggag ttcgagacca 240
gcctggccaa catggtgaaa ccccatctct actaaaaatg caaaaattag ccatgtgtgg 300
tgctatgccc ctgtagttcc agctactctg gaggtgagg caggagaatc gcttgaaccc 360
aggagggcga ggttgtggtg agccaagatt gcaccactgc actccaacct ggcaacagag 420
caagactctg tctcaaaaaa aaaaaaannn an 452

```

<210> 840

<211> 489

<212> DNA

<213> Homo sapiens

<400> 840

```

aaattatata ttgataagta aatggcttgt tgcatatacc aactttagaa tttattaact 60
ctaaagtttt tattgggttaa agccaaataa aataatataa gtcataattt ttttagattt 120
ttcatgtcct aaaatgaaca tagttgtata ctttatctca ctaggataat ttttatcttt 180
gcctatatgt gctgctggac cttgtaaaaa tatgtatact ttctagattt gtggtagaaa 240
tttagctata gaatcattta atttgcaaac tggaatgggc attagagaat catacagttt 300
ttctttctca ttttaccggt aaaatcactg atgtctcaat ttgtgactaa tttcctaaag 360
gttgcaaagc tgrgtagata gagctagaac taaatctaga tcttttgtct tcttggtaac 420
tgataatgac atattttattc cattgattct atgacatgga cgaataaaag ctgcttaagg 480
ccaggcgag 489

```

<210> 841

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

561

<400> 841

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gacttcactc aaaaagtgcga gaattcacat tcttttcagg aacacatgga acatttatat 60
gtgggtgggac ataaaactaa tcttaataaa tctgaaacta ttttgatcac ataaagttct 120
ttcattataa agaaattcaa ttgtaaaccc aaaccagaag atatatagaa acaccataa 180
tatttggaagaa tgaaacagca cacttctaaa tatcccatga atcaaagaaa aacaatcaga 240
agggaaacta ggaagatttt gaaatgaatg aaaatcaaaa tacaacacat caacatttat 300
gagatgcagc taaagcagta ctgagatgaa attttatagc actgagcagc tatattatta 360
aagaagacaa gcctcaatga tctttctggc tcaagaaaag ggaaaaagaa gggcaaacna 420
aactnaaggt aagcagaaga agaaagaaaa agtcngaaag antt 464

```

<210> 842

<211> 412

<212> DNA

<213> Homo sapiens

<400> 842

```

cctggcccgt gtcttcatcg gcatcaacga cctggagaag gagggcgcct tcgtgtactc 60
tgaccactcc cccatgcgga ccttcaacaa gtggcgcagg ktgagcccaa caatgcctac 120
gacgaggagg actgcgtgga gatggtggcc tcgggcggct ggaacgacgt ggcctgccac 180
accaccatgt acttcatgtg tgagtttgac aaggagaaca tgtgagcctc aggctggggc 240
tgcccattkg gggccccaca tgttccctgc caggtttggg cagggaacaga gccagacca 300
ttgtgccagc caggagggtc gtccctttgt taagggtgga ggctcactta gtagagggtc 360
gtgttctaaa ctgagaaatg gcctatgctt aaggaggaaa ttgaaagttt ct 412

```

<210> 843

<211> 565

<212> DNA

<213> Homo sapiens

<400> 843

```

gaaaaaaaaat gctaattgtga gaatataaat tgtgggaaat gagtgagggc aagggtggtac 60
ttcctccttc tgagctcttc acacgtaatg caaaaacccg gtcttaattg attttgtttt 120
ttttctgagt atgcatatat gtggttgaat gaaccaatgt gtgattgtat cttttccatt 180
atgtgactgt ttgacctgca tattaatttc aagatagcag tcaattcgat aaggcatttt 240
catagaggaa agtttacaga aacagtttat rtggttggat caccaaatta tcttaggtac 300
taaggcctca aaaataagaa aaactttatt atttctcctc agtagagttt ggacatacat 360
aaggagagaa ggtacagtga tgaaggagac cataattctg tagtgttgat gatcctggat 420
tataatcttt ttctctttat ctttcatagt ttttttaaaa acatggactg tatcttatct 480
accactatat cccaaatacc taagatagtg cttacgttca gtgactatta aataaataaa 540
tggatgaatt aaaaagtaaa aaaaa 565

```

<210> 844

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

562

<220>
 <221> misc feature
 <222> (491)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (534)
 <223> n equals a,t,g, or c

<400> 844
 agcagaacaa cacagtcctg gtggaaggct gcttctgtcc tgagggcacc atgaactacg 60
 ctcttggtt tgatgtctgc gtgaagacct gccgctgtkt gggacctgac aatgtgcca 120
 gagagtttgg ggagcacttc gagttcgact gcaagaactg tgtctgcctg gaggggtgaa 180
 gtggcatcat ctgccaaccc aagaggtgca gccagaagcc cgttaccacac tgcgtggaag 240
 acggcaccta cctngccacg gaggtcaacc ctgccgacac ctgctgcaac wttaccgtyt 300
 gcaagtgccca acaccagcct gtgcaaagag aagccctccg tgtgcccgtt ggggaattcga 360
 agtgggaagag caagatgggtg cctggtaagt gctgtccytt ctactgggtg gaagtccaag 420
 ggggtgtgtg ttcacgggga atgctgagta ccagcccgtt tcttccagtt tattcctcca 480
 agtggccagg ncttgctgtg nccaagggac aagggtgggac aacaacaacc ctgnttcaac 540
 gttcattggc ctggcaaccc acggggggggg g 571

<210> 845
 <211> 678
 <212> DNA
 <213> Homo sapiens

<400> 845
 ggggaagcttc cagcccaaca ttttctaaag aaccaatgaa agtgcaagac agtgatttga 60
 tcaaagcaga taacactata gaagggtgaca ataattgagca aaattatata aaggatgtga 120
 aactagagga ccattcttta gctgggtcat gcttaaagca gagtagtaaa aacattttta 180
 ctgaaagagc tgaagatcaa attaaaataa gtacaaggaa gcagaagtct gtaaaagaga 240
 tctcttcata tacaccaaag gactgtactt caagaaatgg tccagaaagg ggatgtgaca 300
 gaggaataat agtatcaaca cgtttgttga ctgattctag cactgatgct ttggaaaaag 360
 tgtccacatc gaatgaagat ttctctttta aggatgatgc tcttgctaaa acctcaaaac 420
 gaaaaactaa ggtacagaaa gatgaaatct gtgcaaagtt atcacatgta ataaaraagc 480
 aacacaggaa gagtactttg gtcgataata ctatcaattt agatgaaaat ttgactgtat 540
 ctaacattga gagtttctat tcaaggaaag atacaggagt tcagaaagga gatgggttca 600
 tacacaatct ttcttttagac cctagtgggtg ttctggatga taagaatgga gaacaaaaat 660
 ctcaaaaaca tgtattgc 678

<210> 846
 <211> 352
 <212> DNA
 <213> Homo sapiens

563

<220>
 <221> misc feature
 <222> (211)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (225)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (314)
 <223> n equals a,t,g, or c

<400> 846
 ggaaagattt aaggaaagaa aactttttcga tttcctttga aaaatagaac acaaaactgg 60
 cttgtaaatg tttttagaat gatgaataag tcattaatta attcagtgac gtatgttttc 120
 taggatccct ctggctgttg tgctgagaac agaaggggtc aaggggagtgg gggagtaaaa 180
 atggaagcag ggtgcgcacg cggagtcaga naaaatgggtg tttnttaggt ggacacaagg 240
 aaggaagagt gattgatttt tgagaagcta aaattgtgtg gtaagtggat agtagcaaat 300
 atcccagttt gctncatgaa gcaatacata tgttgaaacg gaaacgttgc ta 352

<210> 847
 <211> 890
 <212> DNA
 <213> Homo sapiens

<400> 847
 ctctttttgca gcttgtgatt tcttccagct tgggaggggc tgctggaagt ggcatttcgt 60
 tcagagctga ctttcagtgac acccaaactg gatgacgtgc caatgtccat ttgccttatg 120
 ctttgtggag ctgattagga tgggattttga ggtgataatc cagtaagtct ttctcgttc 180
 ctacttgttg aggatcagta gctgttatga tgccagacca tttggagaag tatcagaggc 240
 ctgaccggac acataatacag acaaccacat ttttctcat catccatgag gaaatggatg 300
 atttctcttt tccatatgtc actgggggaa aggctgcctg tacctctcaa gctttgcatt 360
 ttactggaaa ctgaggcgctc aagatggctg tggcagctag caaaagcaaa gatgctttgt 420
 gcatagcctt gtgaaaaagt atctttctat gcaataagat gaattttcct cccagaatat 480
 ttagaaatgt agaagggata acagttcaca gccaggtaaa atttaactgg tggcttaatg 540
 actctgcacc tttttctcag gaattctgcc taagttgtct gccttttcta ccacaaaaaa 600
 gacttttagt tttctatgct ttctcctgaa ttttggtagg gtaaggattt tctatgtcaa 660
 agcacagcct tgatgatctc agggaaaaat tttaatcact gtgtataatg atactgaacc 720
 ttgattaata acagaaattc aggatgtaaa gccacagaat gggatttatt aatgtgggat 780
 acctcagact gtttgttttc tttctgggaa gaaaagtgtg ttctataatg aataaatata 840
 gagtggtttt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 890

<210> 848
 <211> 591
 <212> DNA
 <213> Homo sapiens

<220>

564

<221> misc feature
 <222> (132)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (542)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (550)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (579)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (590)
 <223> n equals a,t,g, or c

<400> 848
 cgccgtgtcc aacaggagat cgacgacgtg atagggcagg tgcggcgacc agagatgggt 60
 gaccaggctc acatgcccta caccactgcc gtgattcatg aggtgcagcg ctttggggac 120
 atcgtccctt gnggtgtgac ccatatgaca tcccgtgaca tcgaagtaca gggcttccgc 180
 atccctaagg gaacgacact catcaccaac ctgtcatcgg tgctgaagga tgaggccgtc 240
 tgggagaagc ccttccgctt ccaccccgaa cacttcctgg atgccaggg ccactttgtg 300
 aagccggagg ccttctctgc tttctcagca ggccgccgtg catgcctcgg ggagcccctg 360
 gcccgcatgg agctcttctt cttcttcacc tccctgctgc agcacttcag cttctcgggt 420
 cccactggac agccccggcc cagccaccat ggtgtctttg ctttctcgtt gagcccatcc 480
 ccctatgagc tttgtgctgt gcccgtaga atggggtagc tagttcccag cctgctccct 540
 anccagagggn tctaaatgta caataaagca atgtgggang ttcaaaaaan a 591

<210> 849
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 849
 gcgcagggtc ctttcagtc ctggatggcg agcgcagccc ctgggaggcc acacttagtt 60
 ctttattgtg aatctctcgc tactcaagtt cgttcgggac cagggcctcg gatggcctcg 120
 gttgcccgta agtacgcgaa agaagagggt aatccaatcg ctggcctaga ggatagtgat 180
 cagacaaccc gaggattact aaacaagggg cgggcggtgtc cctgtctcat ggggttggcg 240
 tggggcgggg ggtaggcagc aagatcctcc aggctcctgg atgcaaagag tgagaaagaa 300
 agcgcagcct ctggcagcct gcttataaat gcagcctttc ggaagatgaa acttgcagtc 360
 ttaggttgct ctcctttata tccatgttcc aatcctctgg gctttcctcg aaatgaataa 420
 aattgtggaa atgaaaaaaaa aaaaaaaaaa 448

565

<210> 850
 <211> 536
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc feature
 <222> (496)
 <223> n equals a,t,g, or c

<400> 850
 gcgggccgcct actactacta aattcgcgkc cgctcgwcaa atggctggta agcaggccgt 60
 ttcagsatca ggcaagtggc tggatggat tcgaaaatgg tattacaatg ctgcaggatt 120
 caataaactg gggttaatgc gagatgatac aatatacgag gatgaagatg taaaagaagc 180
 cataagaaga cttcctgaga acctttataa tgacaggatg tttcgcatta agagggcact 240
 ggacctgaac ttgaagcatc agatcttgcc taaagagcag tggaccaa atgaagagga 300
 aaatttctac cttgaaccgt atctgaaaga gggtattcgg gaaagaaaag aaagagaaga 360
 atgggcaaaag aagtaatcat gtagttgaag tctgtggatg cagctgttat gaagatgggt 420
 aaacttgaaa caaacaattt taagaattat ttggtctgaa gatgtyttac tttaaataaa 480
 tgtctattgt aawggnaaaa aaaaaaagg sggccgcycy araggatcca agctta 536

<210> 851
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 851
 acttataatc caaaagacca ccaggatgac taaatagtag aaagaagagc tttattgggtg 60
 atatcagttg caagctggaa gagaaagtct ccagcatgga ccaaagatgc tctctcttca 120
 aacaggggaa ggacagggtt ggtctcattc ctctgagagt ctgtattaca caatagagtc 180
 atacgtattc agcagggttg gggtagaagc tatacatatt tatgaggaga gccaagcaca 240
 ggagcaatga ataaacaaac atgtaatata catcccatat tcactttggg gcaaaagggtg 300
 aactatagga cacaaagaca gtgtgtgtgc agcctctata agctggctga aactggctta 360
 aggtctgcaa ttgctcatca gaa 383

<210> 852
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (280)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (527)
 <223> n equals a,t,g, or c

<220>

566

<221> misc feature
 <222> (642)
 <223> n equals a,t,g, or c

<400> 852
 gctttacctg agctttgacc tgcgtagcaa tatgttgatt tttaaggat gttttgtaaa 60
 ttaaaaaaat gctattataa aataatgact ttgaagagat ggtaatat ttt ctattgaaca 120
 tattaatgga ccaactgctat catgtagttt ttaatttaga aggetcaatt ttagttttta 180
 ttagaaagaa tattgttttag tatcaaatga ctattaaaag tatatagtgc aataaaaaga 240
 aagacgtgaa ggaatgtgga amcattaaaa caaaatcgan cctccttaag tagtagttat 300
 atcagatgta attaaaagat gggatgtaat ttgactatca aatacttgaa ccaatgcttt 360
 tattttgtaat atatatatgt gtatatatgt ttttgattac caatattaaa cmcaaagtga 420
 aacmctattg atttgaagca ctggcccat taaaaataat ttaaatgggt accccagaac 480
 cttgtcgtaa ttttattggg gatttttgta caatatatag ccctagnttc gtctccaacg 540
 ttctcacctt taagaaagca tttacatttc ctatcctctc ccaactggga gaatatgcaa 600
 atattataaa ataaaattct ctttttagaaa ttaacaaaaa gnaa 644

<210> 853
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (440)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (449)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (521)
 <223> n equals a,t,g, or c

<400> 853
 tttttttttt tttttttttt tttttttttt tttttttttt taacaaatgt ycagttttwt 60
 tcattacaaa tattaacatc atttttcttt tttttatcct ttatgcatca ttttatacat 120
 tcacacacac aaagaacatt aaaaatatat ccaattattc aattttgggt gaattttcat 180
 taaaataagt gttaaaaata tttatttggt ttctgttttg agaaggcttt tattgttgta 240
 ctccrgagtg ttattttctgg agacaaagtt gcctgtgctt taatagggag attcctggga 300
 gaatctaaac cataagcaac aaaattttta gtttaataaat tcaagacaaa gcagaaagta 360
 tagatttgct ttcagcattc ccgaggtggt tagattttta ttagtcacct aattaamata 420
 ttgttccaat aattggttcn tttcctceng aaaataagca gaaactcata cttacaccaa 480
 aacacttcca taattttctt acacctagg gtttatcctc nggaatg 527

<210> 854
 <211> 513
 <212> DNA

567

<213> Homo sapiens

<400> 854

```

aaaaaaaaa acaatgaaag tagcctccac ttacaaacta attactcttt cttgaaaata 60
ttacactttt tttctttctat atctctactc ctagctctca acacctttct taagcccaca 120
tcataacctg tcttgcataa ctttgtgagt gcccaacgtt tcaactgtaca agattgtaga 180
gctgcatgct tcttaagaat aaatccacac tttagggtacc agtaaatacca tgcaatgcct 240
cagacgttat aaccaaataa tgcctggaaa atcgacatga atttatgtga agcataagcc 300
tttaattttt ttaaagaaaa gtagattgct gtttttccac atcatttcag agccgttctc 360
tagttttgca tgccctttac tgcagaacca tacagatttt gttctccatt tcatacatca 420
tttgttgaaa tgccctttta aatgtaacgg aatatagagc tttatgggaa aaaatgctgt 480
agaaaataaa ttatcttctc tctttgtatt ggg 513

```

<210> 855

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<400> 855

```

gtcttcayct ccgtatctgg ccttatgttt ttatgcattt caaggtagca gacatcagta 60
cattttacac ctagattcgt ttacatgcat agcattagag ttcaatagtt gcttactgta 120
tttaggtaaa cttttcatac agtgaaacgc aaaatctcaa atgtaccttt caatgaattt 180
tgatgcatgt acacaccttt ataactcaaa tcactatsca gatgtagaac atgaccatca 240
caccagagge cctcctgccc cttctcagtt gattctaata tccactcccg aaagcaacca 300
cagttctgat ttttttcacc atagattggt ttgactaact ttttgaactt catataaatg 360
gaatcaaaca gtatgtactg cttcacataa ggcttctctc actcagcata atgtttttga 420
gatccgttgn gntg 434

```

<210> 856

<211> 1432

<212> DNA

<213> Homo sapiens

<400> 856

```

gcaatgctat cggtttttgac aggaagcacg atggtaagaa taccactaac gaaaaccttt 60
gtgggtgtctc aatgacaaat atgcagatgc caccctcctt tgtctaattg acgggtgcttt 120
agggcaacta ttaataataa agcaactcag aacttgtttc aggaagtgtt gctcttttcgc 180
cttacatgcc aaggttctag ggaaaaagct gaccatatgt aaaaacattg atgctcaagc 240
acataaagaa ttcattcttt aaacatagag tacataggrrt caagtctctg cacaataatt 300
gagatgtgtt ataggggaaag tgagccagtg ctattgtyca cttagtcttg gtgaatgtgc 360
agtaggctca cccctaagga atctcatgtt gcctgcagta aaaataaaaa tggactgcta 420

```

568

```
caatgacata ctgagagagt tttaaatacat gctttacaaa ctgacattct gagctctgag 480
acagcagaaa atgtatcacc agagcaaggg aggaggcaaa tgttctgaac aataattgaa 540
atggttgtga ttttatttgg agttggcaca gatccaagtg accaaaggag ttcaaggccc 600
aaaatttagt tatgctggat taattctgag agtaacaagc acatagatta taatctaaga 660
aaaccctttg tagctatgca tgtcgggaga gcatctaaca ctaatggtga tgtttcccat 720
gcagagactc agattacagt gactcttcca gtgaagacag atgaaagcca ttgggcattg 780
tacctttgtt aatcaagcta aactaaccaa ggatataggg gtgtgtatgt gtctgtgtgt 840
gtgtgtttgt gtgtgtgtac acatacatct ataggtatga atgagacaaa aagctgctga 900
cttacagctt aggaaatgca aagtcaagtt tttcttttca ccctgaggca ctcagtgcac 960
aaaggttcaa gttttaaaac taagaatgtt tccaaaagac cagcaatgtt aaaagagtat 1020
ttcgtgtata ctgacgtgc ctttaagcaa taaaaattcc aagagctgat cattattgtg 1080
cttccatttt agaaaagttt atttagtaac aaacttccca gtgtaggagg gtttttccct 1140
gcccttttga acatgttagg ttattttctt cctatcctgg ggccttacca atgtgtaatg 1200
ctttcaaagt ttctatgaag cctgtgtgga ttctatttta gcttatttat atattctcat 1260
ttattttgaa ggatattata cttaatttgg ttccagagtag tcgccagggt ttgcacctga 1320
caatggcaca tattttttgt ataacttttt ctaggctcct acccttttcc acactttaca 1380
tttgtacagt gaaagcaact gccagtggag gcctgaaatg tccaaaaaaa aa 1432
```

<210> 857

<211> 1140

<212> DNA

<213> Homo sapiens

<400> 857

```
ctttggggaa tctggagtag aggcctctcc gcccctgacc accgaaacgt gcaggcattc 60
tcaactcacac tgggcagccc gctgtcgggt ctctctaggc ctatgaacca caaagcaggg 120
aagtgggcac gttctctcgg ggtggctcac agctttgaac ctgccaaagg acccctcgac 180
tggccacagc ccagcccagc ctgacgtgga tgtggctgcc caggaaaaga cttaactgtg 240
aaaaagtact gagaaccacac ctgacccagg cttgccccaa gcagaggcta gagaagaggc 300
tcctcttctc agtgtttccc aaaggggcgg ctcttgtggt ttcaaaatct ctggcaccat 360
cttgacctct tggctctctc tgcactttgc cccctgtctc aaaaatgtcc ctcatgtcca 420
tttctgtgcc aggagactca tgaggactgt gtgacctgca caagcccaca cctgggcagg 480
ctgttggtgt ctcttcttag cttaggcaga tactccccctg agtccccgat ctagggccag 540
ctgcagaggg ctctctctag gcagagcgtt cctggccaga gctctacctc tttgctctct 600
gctgacccct gacagcgtcc cgtgcatctt ctttcatgtc tgcataattgc atagccttgt 660
cctcctgtgt gcctgagctc ctcccttttc aataagatta ttagtcgtgc atgtctgtga 720
gctgcctttc atcaccattt ttcttgagta gggcttagtt ttattctgga aagacatctc 780
caaggtgagg tccacccccca cagcagacct caagtagaaa ttgcccatt tttaccagct 840
ggagggacac ccttgggttt ttgtacgaag ctattttaatg agcctgtgtc ttggggactc 900
agcaggctgg agcttggggc ctggtggacc atcacctggt gtctgtagggt ggaccgggtc 960
tcccacaggt gacatcaacc tgaggtgggc gtcttttagag acaggcacat gggcagctct 1020
gttcccttcg cctctactgc gaggcctggg gagatgttgt tttcatgctg cttccaccat 1080
cacactgggg tttctggatg ggaaataaaa aaataaaggc agttcatttc cccaaaaaaa 1140
```

<210> 858

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

569

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<400> 858

```

ttggaacgcc cgcgtccgct tgtatcaaaa ggtccagacc taaggggaaa ttttatctct 60
ttctttcttt ctttcttttt ttttgacaca gagttttgct cttgttgccc aggctggagt 120
gcaatgacac gatctcgggt cactgcaacc tctgcctcct gggttcaagc gattctcctg 180
cctcagcctc ccgagtagct gggattacag gcgcccgcga tcacgcccgg gtaatttttt 240
tgtattgttg gtagagacgg tgattcacta tgttggccag gctagtcacg aactcctgac 300
ctcgtgatcc gccacctcg gcctccaaag tgctgggatt acaggtgtga accaccgtgc 360
ccggnctctt tntattaatt cctaaaaat taccttgagg ccaaattctg cgcttaagga 420
gaatgtgcac caagtgtcgg ggtgggggct ggttataaac gaggccacaa atcatgcttg 480
ttaataaatt gtgtgggttca aatctgaaaa aaaaaaaaaa caaaagagtt tt 532

```

<210> 859

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 859

```

ggctttattc agaggtcaaa cttccttnaa naccagaaaa ttcatactga agagaagctc 60
tatgaatgta gtcagtatgg gagagatttt aactcaacta caaacgttaa aaataatcaa 120
agggttcacc aagagggact ctccttgagt aaggcccca tacatttggg tgagaggtct 180
gtagataagg gggaacacac aggttaactta taaaataatt actttccgcg ccagtgagtg 240
atgtttggaa atgcgtggaa ttaggattca tgtggtttct aagatttggg catgtcagaa 300
ttttgtgagt catggatggg gctgcttttg cagcgggtgc cacctgccac tgtgcanccc 360
tactcggctc agcccttctc ctcagctgtg a 391

```

<210> 860

<211> 567

<212> DNA

570

<213> Homo sapiens

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<400> 860

```

gtcctattcc tcgtggcagc ccaagccagc tgctggcccg gaggggagct tacctttctca 60
aagaggccca ggagttttat agcctccttg aaacctttgt ttctatggac agaaagttca 120
tgatgcagat gctaagtttc tcttaacctg tttcttttta tttaccttg ccattctgga 180
tgaaaatgct gatcggtggg cactttctag caagaacggc ccttgtaacct ttgaccata 240
aaacaagact gttatcattt atagacactt ccattaaaaa aagatttaag gaccgggcac 300
ggtggctcac gcccgtaatc ccagcacttt gggaggctga ggcgggtgga tcacctgagg 360
ttgggagttc gagaccagcc tgaccaacat ggagaaaccc cgtctctact aaaaaattag 420
ccaggcatgg tggcgcatgc ctgtaatccc agctactcaa gaagctgagg caggagaatc 480
acttgaaccc gggaggcgga ngttgcggng agctganatt gcaccaccga ctccanctg 540
ggcaacaaga gtgaaactcc gcttaaa 567

```

<210> 861

<211> 664

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<400> 861

```

accattattt gagaatacac ctgaggagaa gacctcaang atagwatggc tcatgcaatg 60
aatgaatacc cagactcctg tgcagtactg gtcagacgtc atggagtata tgtgtggggg 120
aaacatggga gaaggccaaa accatgtgtg agtggtatga ctatttattt gatattgccg 180
tatcaatgaa gaaagtagga cttgatcctt cacagctccc agttggagaa aatggaattg 240
tctaagccaa aagaaagtct aattatatac agagataaag ctaaacgtaa ttattattta 300
aatgaaagct atttttttta atgaattgaa attttttcag atgctactaa tttgccacta 360

```

571

```

aatactgcaa atgggcaccc tgaatctctt ctgacattgg atgttatttg cttatattct 420
tataatttta aatgaggggca cagtgaatg aaaattttat actctatgtt tctgtttatt 480
tttaaatcct taacagcaaa atatttgctt ttaatttctt ttttatatat actctcagag 540
aattcctctt aattttttaa gatgctgggtg ataataaaat tcattagaaa atttcctcat 600
tgtggaatga gcattctctt gttttaatgt tgggtgtcaga aaataaatat gaaacattaa 660
gtcc 664

```

<210> 862

<211> 803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (705)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (761)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (796)

<223> n equals a,t,g, or c

<400> 862

```

gctagaatct cagtcttatt ttaactactg attttgattt cccctaatat caatttttaa 60
aactgctaag ggaaaaatgaa atactagaca tgagattttt tttctcttta ttttcaccca 120
acaaaccatt tggaatcagg tataaagggt atcaatcagg aaaaaacaga aggccaggag 180
acagagccca ataagggaga cccatcccag ggagcctggg agtcagcggg cctggatgca 240
cctcccagtt ctgcctctta ttagccagct gtgtgttaac cctcatctg gtttgctcaa 300
ggtaacatga ccatcacaaa agcaacagaa acagattatt tactttcaga ttaacttggtg 360
aaaatgacaa gttgaatatt gtcatttcag tattcaagtt gaatactatc aattcaatat 420
tcaagttgaa tattgkcaca agttgaaaga ttaacttggtg aaaatgacag ttggttgaat 480

```

572

attggtatatt tctgcctcca attgttgcatt ttgttatattg caacttttaa tgcaccataa 540
aagcattttt gttttgtttt aaaagcattt gttttaacgc accttacaag catttttgtt 600
ttgttttaaa agcgtttgtt tacaaatttg tgttttgtga cttctgggat gatttaacaa 660
cttttaattg accttaatac ttctctgtta gcttttgaga ttaanaacta ttctaattgca 720
atthagccat tatgaaaatt gatgatatta gtanaggtaa nagatatnga atagaagtta 780
aataagccaa ngactntaag aga 803

<210> 863

<211> 633

<212> DNA

<213> Homo sapiens

<400> 863

gactggctta gagacattgg gcagccaaca tctgtatttc ctgcgcagga agtgggcatg 60
gcggttggtg gagattaaac ggggtgtggg tgaagatcca gtgagcggtt ccagctgtgt 120
tgtagatgta aacctagcag ttaatgtggc aggcgtgtgc tcatgcctgc tgagcaactg 180
ctggcttccc cgtcattctg tctcttggga wttctctgaa ttcattagg cctttattta 240
atccttgcac agtgcctccc tgccccaat gctcttccc attggtcttt tttaacctgt 300
atcttaacta ttcttccttg gccgttagct ggcaactaag ggacacttag cctcctgttg 360
aggctaagga ttactagagg aggagaactt cagagtagca aataatcaga cctccatcca 420
ggaagatgga cgtgggtggt ctgacatggg agcctagtat tttraaagct ccttaggtga 480
ttctaattgc agcagggctg aaaatcccc tccttaagca catgggcact taggaggggg 540
tctaggttac attgtggcca agtctgcagt ttacagttct ggacaagaac cccaaccccc 600
aatttatgct atggtgatag ctgtgctctg gtt 633

<210> 864

<211> 507

<212> DNA

<213> Homo sapiens

<400> 864

tcaagggtca cacagggtta agttcagtaa gctgtgatcg tgacatgcct ccagcctggg 60
tgaccgagtg agactgtttc taaaaataaa aacaaaaaat aaatttcttc ttgaggtggg 120
gtggaggtgg ggagcaagaa tttagcctgg ctctgatccc tgggtgtgtg tgtgggcctc 180
tttaacgttt gccactgagc cttaacctca ctgtacttca cagcattgg 240
tgtaaacatt ttaatcttag aagacctga cccactgagg gtttgttgtg agaattgctg 300
aagccacgta gaagcacctt gaaatctgta aaaccacaag aaagtacttt ataaaaggta 360
tccttatattg aagtggataa atcttgtaac tcgaaaagtt gtgatttaga agacaggatt 420
gtttttgaac attaggaatt aaaggctata tctggctcctt aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaa aaaaaaaaaa aaaaaaa 507

<210> 865

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

573

<400> 865

```

gcatatattg atacaaccat atgggtttcc tgcttactta ataatttaca gaatatcacc 60
aattcctggt aaactactct tatatttctg ggctaaccac tgcttgatcat agtgtgttta 120
ctcttttaat tttcaacttg ctttgacttg ccgagatatt gtttaggatt attttaaagt 180
tattcaaaag tatgggttgcc ctttagatct ttgggggggtg ctgtcttgaa cagttttagt 240
aatagagcaa cttttttattt tttaatagaa ctgctattta attttttatt ctttaattggc 300
angt 304

```

<210> 866

<211> 1711

<212> DNA

<213> Homo sapiens

<400> 866

```

acctctattc ttgatgacct ttttaaaagt catggaacag tcccacacaa ctgccaaaga 60
aagttctttc agggcccatg gaaaaagcaa aacagagacc aaaagatttc tgggacatct 120
tgaatgagca gaatgatgag agtcttagta aactcacaga cttggcagta atagagactc 180
tgtgtgaaaa agcacctcta gcagcaccct ttaaaaggag agaagagcca gcaacttctc 240
tttggaatc aaatgagaaa tttttatgga agaaatttag cccaagtgat acagatgaaa 300
acgcaaccaa tacacagagt accacataag catataaatg aattactgca ccagtaaact 360
gctgccatca ctgtttacgg cactggattc cacactgatt ctattatctt gaacacagtt 420
gttgacatat atttttatta aattattgct ttaggatttt ttgaagtcta aagtattgtc 480
atggatctgt ttttcttgat atttgatttg atctttcaag aatatgattg gatttatagt 540
ataaacctct gttatgaatt agaaaagatt ctaggtttgt taataggaga cctgggacat 600
ctttcttact atattacata atgatgtgac acttgccccg gtgagcattg tttcccagta 660
tgaaagatga agagtctgta ccgaatcagc atgagtgtcc ttccagttta aaaaagcttt 720
cktcgctctc ctaatggctc ataggctgaa tcatgtctgc ccctcaaate aggtgtatac 780
caatgtgttt tttactagca cttgggaaag ttattaagta ttttcttttt ccctgggcat 840
catgttctat tattatttta gaaaaaagtc ataattggta ctgaatatat ggtatatata 900
atattaaaat ggtaattttg caacagctca aaattaaaag gttaatgtta tacactttac 960
tatatgagct gtgattacta ccattagcca cagataccag tgcctcaact ttttatgtac 1020
ctattgtgat ttaatgtaaa taaaggtttg tatagtactt ttgtagtctt taagtatgaa 1080
gaaatgggta aactttttat tttgttagaa actgttatat tttgagtgt atatttatgg 1140
tttatagcaa aatgaatgtg cttattgttg aatgcatgta tttagaagcc tttactcagc 1200
ccctgtgttc tgtgctagga gcttgagctc tacaggtaag gcagagctac cggatgaatga 1260
aaggaaatca tgtcagtga aaatcatggt ggaaagcccc tggcatcaca tgtgcatgct 1320
gtaggcagga cctgagctgc ctccgctgca gggtcagatg caccgctgca gctgtccttc 1380
agttagtcca cagggtctgca agaggaggac acatccctcc agaaaacagc ctgagccggg 1440
aactggctgt gctaaagagc actgctatca agttgaggag agagggttc cgtgtactca 1500
ggatgtagag tcattgctca gaagtgaaca aaaaatcaaa aacaaaagtc ttctcaaggg 1560
actgatcggc caagtatgct tttctttaga gcaatgtttt gccctagaga attgtaaaaa 1620
ttatgtcatg actcagtaca tatgtgttcg tacatatatg attggaataa aatgtttatg 1680
aaataaaaaa atttttttaa aaaaaaaaaa a 1711

```

<210> 867

<211> 567

<212> DNA

<213> Homo sapiens

<400> 867

```

gcagcatcta taagctagga aggaggccct caccagactt ggaatctgct ggcttcctga 60

```

574

```

tcttggcctt tctagcctcc agaactgaac atggatgaag ctggaggcca ttatccttag 120
caaaactaaca caagaacaga aaaccaaata ccgcatgttc ttccttataa gtgggagcta 180
catgatgaga tgagaacatt gccc aaagga accaagtga attaccaa at tagaagtgat 240
aagaggttga ctctctccag aaatttattg taattagcaa gaggtaatgg tgtctaaata 300
agatgaaaga agatatttta aagatgataa taacaaaaac tactagaatg aggtgaagcc 360
agaaaggaag agtcataatc aaagaagaga gtgatcaaga atccaaaata gacagagaga 420
gcaggctctt agagaaatgg gagaactacc gcaactgactc tgcacgtagg agacaggcag 480
gagaggagcg cccagccag agctcaacat gcgcaaacag gaagtgtgtc cgaggttttc 540
tggagctcac aggagccggg gaccaca 567

```

<210> 868

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<400> 868

```

ggaaaaaaag aaaagaatag agctacagaa ggaagttcaa gcctaaatta atttgccact 60
gaaaaaatac attttgttat tttctctgtg tcaactgcat gattaaaacc ggctgttaag 120
tgagctctgg ggatgtgctc gtaaaagatt tatgagtaat attcaatgtg atattcaaag 180
tgagtcatga atatcaggat aattgctctc agtgctggct cttttactag gcaggagttt 240
gkcaactgcc ccataaatat ttgctantc tcatgtaaaa aagacmattt catcttctgc 300
atttttatta cctagtataa tg 322

```

<210> 869

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<400> 869

```

ccgggtcgac ccacgcgtcc gattgcagggt gtgaaccact gtgcccagcc ctgattttta 60
tatgtcagaa ctaattcggg tctcttaaaa tgctctgtgg ggccaaacaa attgtgtgcc 120
agatgtggcc ctcaagttgc cagtcctgtc tgtaccagga tgcttcgtta ttgacaaact 180
ctcacattgc aactggagtg gaaacggtgt tagccactaa actgngnggg tttcata 237

```

<210> 870

<211> 523

575

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (45)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (57)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (62)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (91)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (516)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (519)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (523)
 <223> n equals a,t,g, or c

<400> 870
 ggaaggggga agatctggat ccaaccgtgg gtgatggtac cggnggcccc caggttngga 60
 tngggatgga ccaaaatccc atctggggcca ncggctctat ggaaaattkg gcttaagtaa 120
 ttatttccag tattccattg tattccattg tcccttcgtg ttccataagt taaatgactg 180
 tctaattttt ccaaaaattt atttctgact tgagaataag tgtgtcatga ttttcccagt 240
 gtaaagacac tgatataact gtagatacca gacattttat gtagtgtcta tgacacattt 300
 tagtatgtat gagccaacaa tagacatgtc tttgtcttga ggagtgtcca tctgaattga 360
 aaatgtgtca gctttttttt aacatcatca acagacttct taattaagct gccaatacat 420
 actgccaaata cactgtgtgc tgtctgagaa atgcattgtg taagtgtctat ttccatctta 480
 ttaaataaac aatgttgctc tgtataaaaa aaaaanaana aan 523

<210> 871
 <211> 1172

576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<400> 871

```
gaagccaggt ctgctgtggg caagtatagc ctaaccctag tcttgtaaaa taagccagaa 60
agggttactg agccacctta agctagtacc tatatagtag gcaaaaagta cagaaataga 120
tgcaataagt gtggtgagtc tttgagccta cgagtcatgc caccagccat aagntgacct 180
atcacttgag aacctcctca gcaaagatgc cagaaaacat tcaatcaagt tggcaaatga 240
cacaggggaag cttggccctc ttgaccatct tcctggcaaa cctggactgg aagggccatt 300
tgcagcactg tcctggagct aatacactgt ttcactgcct ctgccatata atgatgccag 360
cactagccag ctggtgggta tttggaggaa tcctgcataa ggattgcca ataaggggca 420
ggtacacata cctggcaaag tgatgatgat gtgaattgtt tccagtgagg ggattgagtc 480
aaaacttgga tctcaggtac ctcaattttt ccccmattt ctggctacta ctaaaagcca 540
gaaagaacag aacagtggcc tcaggagatc tgagtttgaa tccttgctct ctaggatgca 600
ggtggcctga agcagaatgc cacacctgca agttgattag aactgccttt cttcccaggc 660
ttgacatagg tattaagtcr aaattacatg aaaccagtg gtaaaaaagc ctctgaaagc 720
tgtaacaccc ycagtaataa caaaagggat ttttatttcm cagctaaagg gaaaatagg 780
ggagaagtta aaaaataatg tctgatcctg ttcctaagtt ccaaactata gccaacactc 840
tgatgctgct ctttttcttg taggaccaac cgtcccagtt tgcctgggac tttctcattt 900
ttacagagtc ccaaactccta ggaaactgga gcaactggta caactgggtca cctactcttg 960
cccctctgta aatcaagcca actgtgacca tccaatgtgc catcttacag ggaaaagtta 1020
taaccactat tcccctataa cataatgcta atgattgtac ttagtacatt tttatacttt 1080
tatgatatct tactgattgg aaatgtcatc ctttattaaa aataaacatg gttttccata 1140
gttgccctgcc aaaaaaaaaa aaaaaaaaca tt 1172
```

<210> 872

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<400> 872

```
gaaaggccga gatctgtcca gctgcgggtga gaggnacgct gaatcgccga agagaattgg 60
ctgcgcttcc ttgtttgtga gctagaatta gaatggcgat cagtccacga agcgatgcaa 120
ctttctccag tcagaaatca acaccttcag agagtcctcg aacaaagaaa tttccactaa 180
ctgaagagga aatattttat atganttgta gagctgccta cttaactgtc ttcaaaagca 240
gcttggaataa cattatttct aaagatcaac tttacttagc tcttcagcat gcaggaagaa 300
```


577

```

atccatccca aaagaccatt aataagtatt ggactcctca aactgccaaa ctgaattttg 360
atgatttttg tataatttta aggaaggaaa aacctacttc aaaagcagaa ctactaaaat 420
catttaagca attagatgta aatgatgatg gctgtatttt acacactgac ctttataaat 480
ttctaacaaa gagaggtgag aagatgactc g                                     511

```

<210> 873

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

<400> 873

```

gggcttttgct gtgcagaagc agcagttata tcggtcctt caagaaactg cctgcagaga 60
ttcctggagt catctgcctg gagcattgsc cactcacctc ctcaactcac ctccctggctg 120
ctccacgtca ttcttccaat ctcatcttaa atgttatttc cttaaagaaa ccttttcctga 180
cccagagtaa aatcagtacc ttcgggtatt cactctcaca acaccttgac ttttttcctt 240
catagcactt agcacagttt gcacttatat ttatttttagt gttttctggc ttaaaacctg 300
tttgccctat cactcatgaa actataaacc agaccctntc tattttactc accactgtat 360
aactagtacc taacagagca tggcataaag nggctactaa gtaaataaat aatgaataaa 420
tgaatgaaca tacctgnttg cctaactaaa ggatctagnc attt                                     464

```

<210> 874

<211> 88

<212> DNA

<213> Homo sapiens

<400> 874

```

tcttttttgcc tttaaaaatc cacttgcagc tgcgctaate caagtgtaga ttcctggcaa 60
catgaatctt tgatcccagg ttacaatt                                     88

```

<210> 875

<211> 617

578

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (533)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (565)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (578)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (596)
 <223> n equals a,t,g, or c

<400> 875
 gcgggccgctg ggcctgagtg tcgccttcgc cgccatggac gccaccgggc gctgacagac 60
 ctatggagag tcaggggtgtg cctcccgggc cttatcgggc caccaagctg tggaaatgaag 120
 ttaccacatc ttttcgagca ggaatgcctc taagaaaaaca cagacaacac tttaaaaaat 180
 atggcaattg tttcacagca ggagaagcag tggattggct ttatgacctt ttaagaaata 240
 atagcaattt tggctcctgaa gttacaaggc aacagactat ccaactgttg aggaaatttc 300
 ttaagaatca tgtaattgaa gatatacaag ggaggtgggg atcagaaaat gttgatgata 360
 acaaccagct cttcagattt cctgcaactt cgccacttaa aactctacca cgaagggtatc 420
 cagaattgag aaaaaacaac atagagaact tttccaaaga taaagatagc atttttaaat 480
 tacgaaactt atctcgtaga actcctaaaa ggcatggatt acatttatct cangaaaatg 540
 gcgagaaaaat aaacatgaaa taatnaatga anatcaanaa aatgcaattg atatanaaac 600
 taaccagaaa atgttga 617

<210> 876
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (271)
 <223> n equals a,t,g, or c

579

<220>
 <221> misc feature
 <222> (295)
 <223> n equals a,t,g, or c

<400> 876
 ggcagtttca attttactat ataaggtgtc taattatacc cattagataa aacaacctca 60
 tcagtcatta gacatcaaaa actgaattaa gctacagaaa acgttgattt ttgaaagcag 120
 cctattatca ctgtcagctt tccatgacgc tgatgtttga ctatagtaaa acaaataata 180
 tatgtatata cctgatctac tatctatatt gtataaagtg gcaatgacta aagggggcaaa 240
 caagtattat attatatact tggcatttct ncttcatgaa atgatgtggg tctgn 295

<210> 877
 <211> 652
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (154)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (159)
 <223> n equals a,t,g, or c

<400> 877
 cacacataga ccaaacttgt atacacacag acatctacac tgacataccc catgtacaca 60
 cacagatcta gacgtgctcc acatatgtgt gaatatgctc acatacaggc ctaccacaaa 120
 cacaaaaccc acctgcaaaag gtttcacgga acngggagnc tctcctggcc tcccgtccct 180
 cctcccagcc tgtttggtgt gcctctgtag agagcgcttc ggagagagag gcgaagtagg 240
 aagtgggatt ttctcttccc tctcctgggc ccgtttgccc ctaccctcgc ccagcaagct 300
 gcgccccaaat tctattctgc ctctggaaac tgctggacca tccaagggtca gctgcctgcc 360
 ctgaccccta cccagaggcc agcttgctct cctgggaggc gggacaggcc ccagtgaggt 420
 tccgttggtgc gctgtgccta tctctcgatt ccagggcaga tgagccacaa catcaccacc 480
 ctgccactta caaggtgggg gacctgggtc tggggctctca ggcgcaaact ggaggccctc 540
 acagcccact aggccccctc ccaaccccag taccctcagt cctcagtcg ggtggtgcta 600
 gtagagctat ctctgacgst gcaggcccca ggtagatggg cagggcccgt gg 652

<210> 878
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 878
 ggaagaaaatt tgatttcaga aatgtcctat atttaaataa gcaaagccat tgaaattgaa 60
 gcacatttct tatttgaagc atctgggaaa tacaactgtt aagtatctct caaatattca 120
 gtatatggaa tttataccca catttgtttg tataatctatc tgtaagctgt tgcttagaag 180
 aattgagagt ttggattatt tcagaatata actattacag ttttccatag ttgattgaaa 240
 gtttttaaac tcaaactttc attggtagaa tatctggaag gcatgtttgc aatataatgt 300

580

ggcttgtagg atctctccta cttttttatg ctctgttttg ccagttctca aaagtaaata 360
 cctgaagtcc tagaggtact ataaacattt tggtaaacad tctttgagac tttttctcat 420
 gtacatgtaa a 431

<210> 879
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (370)
 <223> n equals a,t,g, or c

<400> 879
 aagtcggagg tccccaaatc tgccgtgtat gtggggacag gccctgggtat cacttcaatg 60
 tcatgacatg tgaaggatgc aarggctttt tcaggtagag ttacccatca gccttcaccc 120
 acgtgccacc actgacccac tgggtaacrt ctcagggcct cagcttgacc trtccccag 180
 gttcagagtg tgggctgggtg gcccacccaa aggccttgta attagtctca agggagccat 240
 ttatatccca gaggaatcct tcatcttcag tcttcctgtt ctaccagga aaggtctcct 300
 tccattaaga tatcccttgg tttctccatg tgctcttgaa taaaatggaa aatgactcag 360
 tgaaaaaaaaan 370

<210> 880
 <211> 326
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (208)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (298)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (312)
 <223> n equals a,t,g, or c

<400> 880
 gcggacgcgt gggcgcgctc ctctctgggtg gactcgctag tgctgcgcga ggcgggagag 60
 aagaaggcgc ccgagggcag cccgcgcgcg ctcttccctt acgctgtgcc cccgcgcgcac 120
 gcgctgcacg gtctctcgcc tggcgccctgc cagcgcgca aggcctgggt gctgtgcgtg 180
 tgcccgcctc gcgtcacgc ctcgcagntg catgggcccc ccgggcccgc gcgctgcctc 240
 tactcaaggc ttccttccca ccttcgggt cgcagtactg cagcgcccc tgggcccgnca 300
 gcactctgct gngtcgcccg gggtcg 326

581

<210> 881
<211> 1315
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1283)
<223> n equals a,t,g, or c

<400> 881
agaggctcag gcttacacag cttacctctc aggaatgcta cgttttgaac atcaagaatg 60
gaaagctgcc attgaggctt ttaacaaatg caaaactatc tatgagaagc tagccagtgc 120
tttcacagag gagcaggctg tgctgtataa ccaacgtgtg gaagagattt caccacaacat 180
ccgctattgt gcatataata ttggggacca gtcagccatc aatgaactca tgcagatgag 240
attgaggctt gggggcactg agggctctct ggctgaaaaa ttggaggctt tgatcactca 300
gactcgagcc aaacaggcag ctaccatgag tgaagtggag tggagaggga gaacgggttc 360
agtgaagatt gacaaagtgc gcattttctt attaggactg gctgataacg aagcagctat 420
tgtccaggct gaaagcgaag aaactaagga gcgcctgtt gaatcaatgc tcagcagtg 480
tcgggacgcc atccagggtg ttcgggagga gctcaagcca gatcagaaac agagagatta 540
tacccttgaa ggagagccag ggaagggtgc taatcttcaa tacttgcata gctacctgac 600
ttacatcaag ctatcaacgg caatcaagcg taatgagaac atggccaaag gtctgcagag 660
ggctctgctg cagcagcagc cagaggatga cagcaagcgc tcaccccggc cccaggacct 720
gateccgactc tatgacatca tcttacagaa tctggtggaa ttgctccagc ttcttggtt 780
agaggaagac aaagccttcc agaaagagat aggcctcaag actctggtgt tcaaagctta 840
cagggtgtttt ttcatgtctc agtcctatgt gctggtgaag aagtggagcg aagccyttgt 900
cctgtatgac agagtcctga aatatgcaa tgaagtaaat tctgatgctg gcgccttcaa 960
gaacagccta aaggacctgc ctgatgtgca agagctcatc actcaagtgc ggtcagagaa 1020
gtgctccctg caggccgcag ccattcctga tgcaaacgac gctcatcaaa cagagacctc 1080
ctcctcccaa gtcaaggaca ataagcctct ggttgaacgg ttgagacat tctgcctggg 1140
acccttccct tgttcaccaa gcaagccaac cttgtggcac ttcccaccag sgtttcagcc 1200
ctttccctgg caaggctttt gttctttgga ctgggccytc aaaccatgtg ggcttttccc 1260
accccttgag ggacaagtgt ggnacaggaa ggaccaagag tgggctcact gggtta 1315

<210> 882
<211> 988
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (977)
<223> n equals a,t,g, or c

<400> 882
gatcctctgg ttttagaaa acgcagtgga gacagggacc tggagccaga ttggctagcg 60

582

```

caacttcgga ggcagctgga gcaaaaggta gcaggagaca ttggggatcc tcatacctact 120
cgctcagata tttcgggagc cggaggaaca acaacagaaa acactttcta ccaggacttt 180
tctggatgtc aaggctactc tgaagcccct gggtaccgct cagctctgtg gctgacacct 240
gagcagacct gcctgtctcca gcccagccca cagcagccct tccccctcca gccgggctcc 300
taccagcag gaggggggtgc agggcagaca gggacaccga ggccttttta ctcagttcct 360
gagacccatc taccagggac tggcagcagc gtggcagtga cagaggccac tggaggaaca 420
gtctgggagg aaatgctgca gacacacctg ggccctggas asaacacagt gtctcaagaa 480
acttcccagc ctctgatgg ccaagaggtc atttccaaac cacagacacc attggctgct 540
asaccacgan tattttctgag agttccgcca gtccagccaa ggaggatgag aaggagtcct 600
ctgatgaggc tgataaaaaac tctccccgaa atactgccca gagaggcaag ctcggagatg 660
ggaaggagca taaaaagagc tcagggtttg gctggttcag ctggtttcga tcgaagccca 720
ccaagaacgc atccccckct ggagacgagg actcctcaga cagccctgac tctgaggaga 780
ccccagagc atyttctccc caccaggctg gcctgggcct ttcactgaca ccttcccctg 840
agtccccacc tyttgcccga tgttagtgcc ttyttccagg ggcakagggtg ggggggtgaar 900
gcckaggaty ccgcatccag cgggggggagc agttgcgggg gcgcttgggg tttggagggtt 960
tttttggaac cagaganttt tttctttt 988

```

<210> 883

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 883

```

gctggacgtg aattttgggg acactgttca gcacactcca cctagagccc caagggggcca 60
gagtgggttg aaggcggaag gcccagcac agtggaaagt ccgcgcttga ggagtgactc 120
tcttgtccst gaggtgtttc cagggtggg gcagggggccc gtcagccctg aggttccggg 180
atgccctcca tctccacatt cccatgttcc ccacgtggg caggctcttc tctccaggga 240
cactgcgttc atggggagac atcgtcctct gagtccaggag ccagagggtg gaggggtggc 300
cgcrctmcag aggaggggga agatcccggt cccacgtgcg tttggccact gggggcgtec 360
ctgggcccgt cagcaggatg gctttarcac yggckgagtc tcccttcagc ctcgggggtgg 420
atggtttcca tggcngaatt 440

```

<210> 884

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

583

<400> 884

```

gtcaaaattg agccagagga tctggacatc attcagggtca ccgtcccaga cccctcgcca 60
acctctgagg aaatgacaga ctcgatgcct gggcacctgc catcggagga ttctgggttat 120
gggatggaga tgctgacaga caaagggtctg agtgaggacg cgcgggccga gganaggccc 180
gtggaggaca gccacggtga cgtgatccgg cccctgcgga agcagggtgga gctgctcttc 240
aacacacgat acgccaaggc cattggcatc tcggagcccg tcaagggtgcc gtactccaag 300
tttctgatgc acccgagga gctgtttgtg gtgggactgc ctgaaggcat ctccctccgc 360
aggcccaact gcttcgggat cgccaagctc cggaagattc tggaggccag caacagcatc 420
cagtttgatc tcaagaggcc cgagctgctc actgaggagt cnaagagccc atcatggata 480
gtcaacgaac c 491

```

<210> 885

<211> 865

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (720)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (781)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (827)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (852)

<223> n equals a,t,g, or c

<400> 885

```

caagcccacg tgcaatgagc tgatcaaaac catcatcatc cagcatgaga acatcttccc 60
aagccccagg gwgctggagg gccctgtcta cagcagagga ggaagcatgg aggattactg 120
tgatagccct catggagaga ctacctcggt tgaagactca acccaggatg tgaccgcaga 180

```

584

```

gcaccacacg agcgatgacg aatgtgagcc catcgaggcc attgccaagt ttgactacgt 240
gggccgggaca gcccgagagc trtcctttaa gaagggagca tccttgctgc tttaccagcg 300
ggcttccgac gactggtggg aaggccggca caatggcatc gacggactca tccccatca 360
gtacatcgtg gtccaagaca ccgaggacgg tgtcgtggag aggtccagcc ccaagtctga 420
gattgaggtc atttctgagc cacctgaaga aaaggtgaca gccagagcgg gggccagctg 480
tcccagtggg ggtcatgtag cccgatattt atcttgcaaa catcaacaag caaaggaagc 540
gtccagaatc tgggaagcat ccgaaaactt ttcggagtga cagccatggg cttgagcagt 600
tccttgactg actcctcctt cccaggggtg ggggctagct gccgccatct ccagccatca 660
tgagccagag ccttccaaaag aangggcaga taagtggttc attaatgggc acggagcctn 720
aacttcatta accgcaatca tccttgaaga atcggtgga tagtccacag atccggaaga 780
ntggcacaac gggaagggtca aaaggttcaa taccatnggc catggancct taggcaatgg 840
tcaagatatt gnggaacaat gaact 865

```

<210> 886

<211> 1006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<400> 886

```

ggcacgagct cgtgccgaat tcggcacgag ctcaaccaac ctgcatctag aaagtgaatt 60
ggatgcattg gcaagcctgg aaaaccatgt gaaaactgaa cctgcagata tgaatgaaag 120
ctgcaaacag tcagggcnca gcagccttgt taatggaang tcccaattc gaagcctcat 180
gcacagggtcg gcaaggattg gaggagwtgg caacaataaa gatgatgacc caaatgaaga 240
ctggtgtgct gtctgccaaa acggaggaga tctcttgctg tcgaaaaaat gtccaaaggt 300
ctttcatcta acttgtcatg ttccaacact acttagcttt ccaagtgggg actggatatg 360
cacattttgt agagatattg gaaagccaga agttgaatat gattgtgata atttgcaaca 420
tagtaagaag gggaaaactg cgcaggggtt aagccccgtg gaccaaagga aatgtgaacg 480
tcttctgctt tacctctatt gccatgaatt aagtattgaa ttccaggagc ctgttcctgc 540
ttcgatacca aactactata aaattataaa gaaaccaatg gatttatcca ccgtgaaaaa 600
gaagcttcag aaaaaacatt cccaacacta ccaaatcccg gatgactttg tggccgatgt 660
ccgtttgatc ttcaagaact gtgaaaggtt taatgaaatg atgaaagttg ttcaagttta 720
tgcagacaca caagagatta atttgaaggc tgattcagaa gtagctcagg cagggaagc 780
agttgcattg tactttgaag ataaactcac agagatctac tcagacagga ccttcgcacc 840
tttgccagag tttgagcagg aagaggatga tgggtgaggta actgaggact ctgatgaaga 900
ctttatacag ccccgagaa aacgcctaaa gtcagatgag agaccagtac atataaagta 960
aaatgacatg gattttaaact aattgtttta aaaaaaama acgaan 1006

```


585

<210> 887
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (47)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (109)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (110)
 <223> n equals a,t,g, or c

<400> 887
 accaaccctc actaaaggga acaaaagctg gagctccacc gcggtgncgg ccgctctaga 60
 actagtggat cccccgggct gcaggaattc ggcacgagaa caagcggann ggggaaccgg 120
 gccgccaatg aagaggaaac gwaaaacaaa cccaaattga acattcaaataaaaaactttg 180
 gcagatgatg tgcgtgaccg aattacaagt tttagaaaat ctactgtcaa aaaagaaaaa 240
 cctcttattc aacatcctat tgattctcaa gtcgcatga gtgagtttcc tgcagctcag 300
 ccatttatatg atgaacgatc tttgaatttg tcagaaaagg aagtattgga tctctttgaa 360
 aaaatgatgg aggacatgaa ccttaacgaa gagaaaaaag ctcttttacg aaacaaagac 420
 tttaccacca aacgtgagat ggttggtccag tatatttctg ccactgcaa atctatagtt 480
 ggaagtaaag ttacgggtgg gctgaaaaac agcaaacatg aatgcaccct gtcttcacaa 540
 gaatatgttc atgaattacg atcgggtatt ttcagatgag gaaacttctt aaattgccta 600
 gg 602

<210> 888
 <211> 800
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (623)
 <223> n equals a,t,g, or c

<400> 888
 cacacacaca ggagagaagt cctatgtgtg cagtgtgtgt gggcgaggct tcagcctcaa 60
 ggccaacctc ctcagacacc agaggacaca ctcaggagag aagccttttc tgtgcaagg 120
 gtgtggacga ggctatacca gtaagtcata cctcactgtg catgagagaa cacacacagg 180
 agagaagcct tatgaatgcc aggagtgtgg gcgaagggtt aacgataagt cctcatacaa 240
 caagcacttg aaggcgcatt caggggagaa gccttttctg tgcaaggagt gtgggcgagg 300
 ctatactaata aagtcatact tcgttgtgca caagagaata cactcaggag agaagcctta 360

586

```

cagatgccag gagtgtggcc gaggccttag caataagtca caccttatca cacaccagag 420
gacacactca ggggagaagc cctttgcgtg caggcagtggt aagcaaagtt ttagcgtgaa 480
aggaagtctc ctcagacacc agagaacaca ctcagggggag aagccttttg tgtgcaagga 540
ttgtgagcga agcttttagcc aaaagtcaac tcttgtctac caccagagaa cacactcagg 600
ggagaaacct tttgtttgta gangaatgtg ggcaaggatt tattcagaag tcaacccttg 660
ggaaacatma gatcacacac tcagaggaga agccttttgt gtgcaaggct gtggacaagc 720
tttatccaaa agtcaacttc actttcacca gaggacacac tcagaggaga agccttatgg 780
atgtcgggag tgtgggcgaa 800

```

<210> 889

<211> 387

<212> DNA

<213> Homo sapiens

<400> 889

```

gctctttatg tctctatttg aagatacttt gtctaaacaa aagaatccag atgtgcgcaa 60
tattgttcaa cagcagttct gtggagaata tgcctatgta actgtttgca accagtgtgg 120
cagagagtct aagcttttgt caaaatttta tgagctggag ttaaataatcc aaggccacaa 180
acagttaaca gattgtatct cggaattttt gaaggaagaa aaattagaag gagacaatcg 240
ctatttttgc gagaactgtc aaagcaaaca gaatgcaaca agaaagattc gacttcttag 300
ccttccttgc actctgaact tgcagctaata gcgttttgtc tttgacaggc aaactggaca 360
taagaaaaag ctgaatacct acattgg 387

```

<210> 890

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 890

```

ggcaggaggt caacggggag gtgcggagtc ggagagacag catctgcagc agcgtgtcct 60
tggagagctc tgcagcagaa acacaggagg agatgctgca ggtgctcaaa gagaaaatgc 120
gactcgaagg acagctggaa ccttgtcact ggaggcgagt caggcactta aagagaaggc 180
tgagctgcag gccagctgg ccgccctcag cacgaagctg caggcgagcagg tggagtgcag 240
ccacagcagc cagcagcggc aggattcgtt gagctcggag gtggacaccc tgaagcagtc 300
gtgctgggac ntggagcgag ccatgantga ccttgcagaa catgctggan gcaaaaaatg 360
ccagctggcg tcgttccaac aacga 385

```

587

<210> 891
 <211> 448
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (385)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (412)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (444)
 <223> n equals a,t,g, or c

<400> 891
 aaaccttaca aatgtgatgt atgtcacaaa tccttcaggt atggttcctc ccttactgta 60
 catcaaagga ttcataccgg agaaaaacca tatgaatgtg atgtttgcag aaaagccttc 120
 agccatcatg catcactcac tcaacatcaa agagtacatt ctggagaaaa gccttttaag 180
 taaagagtgc ggaaaagctt ttaggcagaa tatacacctt gccagtcatt taaggattca 240
 tactggggag aagccttttg aatgtgygga gtgtggaaaa tccttcagca tcagttctca 300
 gcttgccact catcagagaa tccatactgk agagaagccc tatgaatgta aggtttgtag 360
 taaagcgttc acccagaagg ttcanctgca cagctcagaa aaccctacag gngaggaaac 420
 cttatgagtgc caaggattgc ggtnaagc 448

<210> 892
 <211> 336
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<400> 892
 ggaacagttg ntaagaataa tgtgagttcc tatctgaaat agaatggtac attaccactt 60
 ttaagtttta aaaattgata gatgttcaga tgtatctcaa actcagtttt atttttattc 120
 caaatattgt gaatgagaag ccattgtcct aaactttggc catttttgtg ctataaacat 180
 gcatttttaa gttataagggt gaatcaaaca atatgtaata cagtattagg atgtaatctt 240
 tgcttttgta gtactgttaa aatagagaat tatgttgttt gcaccgtctt aattaaaatt 300
 cttgattttt actagttgct ttgcaaaaaa aaaaaa 336

<210> 893
 <211> 1555

588

<212> DNA

<213> Homo sapiens

<400> 893

```

gcggacggtg ggtcgaccca cgcgtccgct actaacaact taccacagtg cggagactgc 60
tttctgaaaa ggccactcac gtgaacacta gggatgaaga tgagtrtacc cctcttcac 120
gagcagccta cagtggacac ttagatattg ttcaggagct cattgcacag ggggccgatg 180
ttcatgcagt gactgtggat ggctggacgc cctgcacag tgcttgtaag tggataata 240
ccagagtggc ttcctttctta ctgcagcatg atgcagatat caatgcccaa acaaaaggcc 300
tcttgacccc ctgcatctt gctgctggga acagagacag caaggatacc ctagaactcc 360
tcctgatgaa ccgttacgtc aaaccagggc tgaaaaacaa cttggaagaa actgcatttg 420
atattgccag gaggacaagt atctatcact acctcttga aattgtggaa ggctgtacaa 480
attcttcacc tcagtcttaa caattctagt aattttctta agtttctaaa taccagtgcc 540
tcctgtgtgt gagatgtatt ccataaatca aagttgacgt caaacatctt actacaaaaa 600
ttcagtgaac ttattataaa cattcttcca agtgaattgc ctgactttra tgtcaaaatg 660
tattgataaa taatttgcac atatctttaa ttatttctgt ggagtttgtg atttttttat 720
cagaaataat tttaatgtgt gtatacttaa aaacttgaca cgggttgtag agaaactggt 780
atttttggtg ctgatacaag agaaatgtat ttttaaatat cccacatcct ggatctttgt 840
tggttattta gtatatgtac atatatTTTT ataaggtgag gtaactcaga acttaattta 900
aaagtcttaa atattctgat acaattcagc tgtcttctct accttaccat agccagttgc 960
tttcatttta aaccagagca agtaacatat tagtgacttg aatcttcata agttaaagta 1020
aaaaacagca aaaaacctag atctttgtct tttagaacac agaccatttt caggaaagca 1080
gttagctaag tgtttaattc atgaatatgt tatactgcac cccctaccac aatttacaca 1140
atcctgtgga tagtcctacc tcacctggt caacctacat gatccttaag ctaatggcga 1200
atcacgatga cctgttagac atgcacacaa ctataccttt gtccaacaga tcataatata 1260
tctgctatcc aactggtttt acctgcctaa tctactgat ttgggactg cttgtatagt 1320
ctctcaagtt cacaggaaat gttgattttc taaggctctc atttttacag agtatacagg 1380
caaagtgaca ggggaaaagg aattagtcta agagtaaggg gatgattatt atattgaggc 1440
taaaaccaca aagtggctca ggcttttaaaa aaaaaacact gtggataatg acaaaaagca 1500
taagtaaaaa tatttgagaa aaataaagta caagttttga mcaacaaaaa aaaaa 1555

```

<210> 894

<211> 743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

589

<220>
 <221> misc feature
 <222> (75)
 <223> n equals a,t,g, or c

<400> 894
 actcncgggt tagntggtac gcccgcaggt accgggtccgg aattccccggg tcgacccacg 60
 cgtccggnaa aaaanatgga aaaagaccca agcagattgc ttctttgggc tgctgaaaaa 120
 aatcgggtaa aaaaaaaaaat tacagaggga agtgtgacag taggaaaagc actgggttca 180
 agccagaaga cctgccttta ctgttatggc catcatacct atctcttgat tgtgaggacc 240
 aaatgagaca atgtacatga aagcacatat taagctgcaa agtgtcatgc tagcttacca 300
 caattttacac aatcctgtgg atagtcctac ctcaccctgg tcaacctaca tgatccttaa 360
 gctaattggcg aatcacgatg accttgtaga catgcacaca actatacctt tgtccaacag 420
 atcataatat atctgctatc caactgggtt tacctgccta atcctactga tttgggcact 480
 gcttgtatag tctctcaagt tcacaggaaa tgttgatttt ctaaggtect catttttaca 540
 gagtatacag gcaaagtgc aggggaaaaag gaattagtct aagagtaagg ggatgattat 600
 tatattgagg ctaaaaccac aaagtggctc aggctttaa aaaaaaacac tgtggataat 660
 gacaaaaagc ataagtaaaa atatttgaga aaaataaagt acaagttttg aacaacamaa 720
 aaaaaaaaaa aaaaaaaaaa aaa 743

<210> 895
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 895
 gaggcagcct tgggtgaggg cttccccacc cgcttgcccg acttgaaggc ggctcgctgc 60
 ttgcccccca gtttgtctgg ggggtgcaggg gtgggtggtca ggcctggggg tccgggcgtg 120
 cgggggtcac tcagggccgt gagagaacga gtacacat 158

<210> 896
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (298)
 <223> n equals a,t,g, or c

<400> 896
 gatactgagc gtgcgccccg ggttctcgcc gccttctctc cgccgagcag cccttcggcc 60
 accctttgcc cttaaaaaatc tgcagactgc gcctcctctc cgcgggagcg agacctagca 120
 ggccccgggc tgggcgtgcc ctcgcctgcc acgctgcgcg ctgcyctcag cggggccgct 180
 gggggccgtgc agtgcaccgg gcacgccgcg ccaggctggg ggcaggcacc gagcctccgt 240
 gggagggtccc gaggcagctt cgctgctcgc cctggctcca gccctcacct gccgcagnct 300
 tagctgarca gmcgcgmccac tgggcgcccc cgt 333

<210> 897
 <211> 696
 <212> DNA

590

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 897

```
gatngagggc cagacggctg ctacccaggt atcctttctc tttggaattg aaatgcagag 60
aacattatta aacagcctat ttgctgtgag tgtggaagtg tttccacaga cacctttttg 120
ggaaaaagaa aagggcaaga atcaacctga aaactacaga ggatatatta gccacgggtt 180
gcacgcattc tgcttatgga tctttcagtg actccagtgga ggggccatct gtcccatcca 240
gtgcctgagt gcagccccc cccccacctt tgggtccagag aagtctttgc cccaagaatc 300
tgcccagagt tggggcatca gcccctacag gtgtgggtcc ttcttcagga ctgtgtggaa 360
cttttccttt tgaagaactt tcctggggat gaccactctg cttggagtct ggggtggagc 420
ctggtgtgag ggagccagcg tagggtttgg gtgcctgccc caccctcaga agcaggagcc 480
cagcagccct tggactgacc ggtgctgtty tggggctccc actggctcct tccactgtgg 540
agcactcccg tgaacactgc tttggtttga gtaccagtac aagtgttggg tgtatgttcc 600
tgaccttgag gcattyttga ttgkgcagtt acctagggtg tgcttgtgtc tgacatgatc 660
atTTTTTTTT ttttaataaaa aatggcatgg aaaaaa 696
```

<210> 898

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 898

```
gcattggcct tgggctggta actgttgaag tcagggtgat gggacagaaa ggttcattgt 60
tctatttttg ttcccttttat atggetcctc acagagcttc aacagcatgg ccaggtgac 120
acagagcagg gtcctcaggg cttgtggctt gtggcagcat caccctcaga ctgacactgc 180
tgaggagccg ggggcgggta gctgcaggtg tgcctggctg ggtactgagt ggaaagcctt 240
gggcagaatc ttcatagaag tctagagttg gggagagttg gagggtatgt taagtgaag 300
gtgtatacac ctggaggctt cccagggccc tncactctcg ctctgctctt cggttgaggc 360
agatggcact gctggctgtg gagggcctga tttgtaccac cttccccggc kttatgatgg 420
agcaggggacg acaggctctg gctttgggac 450
```

<210> 899

<211> 827

<212> DNA

<213> Homo sapiens

<400> 899

```
ggaagaatcc gatggtggct ggcgagggcc aagtctctta cgccttcccc tcgtttctcc 60
ctccccgcct cctccgcaga agccgagcgc caaactcaaa ctttatcagg acccgacct 120
ctcaggctaa tcccaggggc cgggcctgtt gggcttttct gcacaccagc cgaggcagcg 180
agccaacatg agccaagtgc tgttccacca actagtcccc ttgcagggtg aatgcaaaga 240
```

591

```

ctgtgaggag aggagagtaa gtataagaat gagcattgaa ctacaatcag tttctaatacc 300
agttcacaga aaggacttag ytattcgtct gactgatgac acggatccat ttttttatat 360
aaccttgтта tatctgagga agattttcaa agkttaaaat tccagcaagg tcttctggta 420
gacttcttag ctttccacaa aaatttatag atctmcttca gcaatgtact caagaacatg 480
ccaaagaaat tccaaggттt ttgctacagt tagytctcca gcagctattk tggataactc 540
acctgcattw kkaaatgtgg tagagacaaa tccttttaag catcttacac acctctcact 600
aaaactttta cctggaaatg atgtggagat aaagaaattt ctgcgaggct gtttgaaatg 660
tagcaaggaa gaaaaattat cattgatgca atcactagat gatgctacta agcaactgga 720
ctttacacga aagacattag cagaaaaaaaa acaagaatta gataagttac ggaatgaatg 780
ggcgtcacat acagcagcct tgacaaaacaa gcattctcag gaactga 827

```

<210> 900

<211> 755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (725)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<400> 900

```

gtcccttaaa ttctgatcat gtaggacatt cttctttgcc ctgggcctgg gaaaatgcag 60
catgtccaga gcaaaagttc taatgaggga actaaaccag tgggacccaa accaatgtcc 120
tggtcactg agsacccgtt agaaccaaat ctctgggtgt ggacaggctc ccatacttw 180
caaaaattcc cctgatgact aatgaacaac cagrggtaag aaccagtggc ccagaggaat 240
aaccagccca gctgttgtag gagctcgcta agctggctca ggtcaatgtt gaattctctg 300
ctaggcagct cctcataaga actggcagag atggttctta cacaacaaca ggtgacaact 360
ccagactctg ccggaagttc caggatctgg gttcccggac aatgcatgac actcagtccr 420
gcattgcagg tggaagagcg acggtgaaaa gaccraagtc aattaaaatg tgттаacca 480
aacaggaaac atgagtgagg tgattgagag tgtgtttaac ttagatgtgt gattttatca 540

```

592

```

atacttttcat tgttcaaaaa ctcttatttt ttaaagatat tttcaaaaca aatccaaact 600
ttactttttca ttccaaaaaa aaaaaaaaaaagg ggcggccggt ctagaggatn caaagcttac 660
gtacgcgtgc atgcgacgtn atagctcttc tatagtgtcc ctaaattcaa ttcttggcng 720
tccgnttttac aacgtcntga ctgggaaaaac cctgg 755

```

```

<210> 901
<211> 659
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (634)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c

```

```

<400> 901
aattcggcac gagccgccgc cgggymgccaggssaccct ctactgccgc gtcttctctgc 60
tcgacgggac cgaagtgaac gtggacctgc cgaaacatgc caaaggccag gatttggttg 120
atcagattgt gtaccacttg gaccttgttg aaacagatta ctttggcctc cagttcctcg 180
actctgcccc gggtgcgcac tggctggatc atgccaaacc cataaaaaag cagatgaaaa 240
ttggacctgc ttatgcttta cactttcgag ttaaatacta ttcttcagaa ccaaacaacc 300
ttcgtgagga gtttacaagg tacctgtttg ttttacaact caggcatgac attctttctg 360
gaaaattgaa atgcccttat gaaacagctg tggaattagc tgctctctgt ctacaagcgg 420
actttgtgtg agtgcgagct tccagaacac acaccagagc ttgtgtctga gtttcgggtc 480
attccaaatc agacagaagc aatggaattt gatattctcc agagatggaa agagtgcagg 540
ggaaagagcc ctgcccaggg cggnaactct cctatctgga atgaaagcga agttggctgg 600
gaaatgtatg ggggtagaca tggcacgttt gttnaggggg gaaggagatg ggctnttga 659

```

```

<210> 902
<211> 597
<212> DNA
<213> Homo sapiens

```

```

<400> 902
gtattgacca gaaataaact tttaaattgat ctgtgatgtt tacaaggata tgtctaaaac 60
gtttattaca ttatttttct cttaattgtga attctccacg tttgaaactg taactcgttt 120
tctcattttt tgttcttctt gttacttctc catatttgtt acttggaat tacctttgta 180
aatacttgag aaattcgttc ttatatataa ttaatataaa aagtttgcatt ttctcaaaaa 240
catctctatc aaagcctgtg ttctcacgag tttaatatca aagtcttaataaaaataatca 300
caactaccca aatgcttata aaatatgttc gattactgga tttttattca ttaaacagaa 360
ttaattttat ttgacatatt taaaggcgcc atttagaaat aaaawtgctt attatgttgc 420

```


593

aatactgtat ctatttcagc ctctacaccg ttttctttt tgtttcacct gaaactagtt 480
 ttcccttccg ttttttttct tggtctatca agctaataa tatatcaaca tacagtaatg 540
 ggggtgctggg ttttgtaagt taaatatgta cctgcattaa ataaatagta aacatgt 597

<210> 903

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<400> 903

nactaccatt gagaaacaag atcctcatgt tgtcctttga cttgagagtg ggtggcctgg 60
 gcccgaaggc cgaccgtttg gaggagcttg tggaggagct ggaagcagcc ccttgctgtc 120
 cgcttttgga ggtggggctt gttttggacc tcctggttca gctggcaggg agtgggtccc 180
 ctcaagttct gccgagaaaa cgagactact tccttaacaa caagcatgtg gggagaaacg 240
 ttccgtacag cggctatgat tgcgacgacc tgantgtgtt tgagatggac gttcaatctc 300
 tgatctncag anaagagtg 319

<210> 904

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

594

<220>
 <221> misc feature
 <222> (554)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (575)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (588)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (642)
 <223> n equals a,t,g, or c

<400> 904
 aagtcaagat caacaggaaa actgcatttg gaactacaac tcttgtcttg actgatttta 60
 gcaataaatc cagtactttg gaaagaaaaa caaagcaaaa ccagatacta gatgaggagt 120
 ttcaaaactc tctccttgct agtgtgtgtt tgaatgatat acagnacccc tccaagaaga 180
 caacaaacga tataactcaa ctatncagca tagtaaacad atcacctaca atcagttcag 240
 aatctaaatt atttagtcca gcacataaaa aaccgaaaac agcccactac tcatcaccag 300
 agcttaaaag ctgcaaccct ggatattcta acagtgaact tcaaattaat atgacagatg 360
 gccctcgtac cttaaaccct gacagccctc gctgcagtaa acacaaccgc ctctgcattc 420
 tccgagttgt gaggaaggat ggggaaaaca agggcagggc agttttatgc ctgtcctctt 480
 acctaggagg aaggcacaat gtgggatttt tttggaatgg ggcagatttt gttcctttcc 540
 ctttctggca accnggggca aggcgtttcc caccntggaa aacagttntt ggaaggtttg 600
 ggaccttaac attggggaaa ggattttttt tttgttgtgg tnccttttgg ggg 653

<210> 905
 <211> 727
 <212> DNA
 <213> Homo sapiens

<400> 905
 cacggtggaa gggctggggc cacggggcag agaagaaagg ttatctctgc ttgttggaca 60
 aacagagggg agattataaa acatacccg cagtggacac catgcattct gcaagccacc 120
 ctggggtgca gctgagctag acatgggacg gcgagacgcc cagctcctgg cagcgtcct 180
 cgtcctgggg ctatgtgcc cttggcggggag tgagaaaccc tccccctgcc agtgctccag 240
 gctgagcccc cataacagga cgaactgcgg cttccctgga atcaccagt accagtgttt 300
 tgacaatgga tgctgtttcg actccagtgt cactggggtc ccctgggtgt tccacccct 360
 cccaaagcaa gagtcggatc agtgcgtcat ggaggtctca gaccgaagaa actgtggcta 420
 cccgggcatc agccccgagg aatgcgcctc tcggaagtgc tgcttctcca acttcatctt 480
 tgaagtggcc tgggtgcttct tcccgaagtc tgtggaagac tgccattact aagagaggct 540
 ggttccagag gatgcattct gctcaccggg tgttccgaaa ccaaagaaga aacttcgcct 600
 tatcagcttc atacttcatg aaatcctggg ttttcttaac catcttttcc tcattttcaa 660

595

tggtttaaca tataatttct ttaaataaaa cccttaaaat ctaaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaa 727

<210> 906
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (608)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (659)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (731)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (754)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (775)

596

<223> n equals a,t,g, or c

<400> 906

```

agnccatgtc caaggcgtgc ttntntaact tattccatta atactctttt tcacttaggt 60
acatctctct gtctttggag cttccaacat ttttcccttt taattttatt taaaaatgtt 120
ttcttccttc atttattttc ccccccataaa acagtatgac aaagggtttg attcagggag 180
agaaaggata tatgaagaca cattcttccc tcttctattc tcttccctgg ttagaaataa 240
ataggcatat agtcctgttt attatgggca ggaaggtagg taaagatcac ctaagtgtt 300
atggcgtgtt ggctttggca catggagaat gagtttttga tcttgttttc tcggcatgtc 360
tgtttcatga gatgagcctg taggaagagt tactaggctc cctgactaag cagcccgag 420
tcttgaccww ywkcaggctg tcaacaatcc taaatagcat atttattacg gactcaaaat 480
gaaatcttra aaaacaaaaa cacaatatat atgtcactgc atggacatcc atcacttttt 540
ctgagcctgt attgcctctg caaaacatta tagcagttac ttagagggaa ggattttttt 600
ctagcctnct ggtaacaggc tccattcaga actttctcga catcttatat caatacttnc 660
tacatctaca agccccagaa atctctatgg tctacttggg aatggctatt taaaagcttg 720
aggcacagcg naaaaagcta accataagaa aagnaatttg nttcttctaa atttnaag 778

```

<210> 907

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<400> 907

```

gagccagatt gccactgca ctccacctgt gcgacagagg ggctgtctc aaacaacaca 60
aacaacaaaa agagcaggkt cataatcaca cagcagtgcc ttatatagtt gccataagac 120
ttcagtgcag tacaacataa ttttacagct acatatcagg gcatattcta tatggtgtat 180
ttgtgttaga ataacacatt aaatgtcttt aaacataaaa ataagaatgt ttgcatgttt 240
cagttttcaa gaaccaaatt agtaattagc tatagattcc actggcctta aacatacaat 300
taagtgtata catgatatag tgcacacaca aaagccacct ttaattattg aaataacctg 360
tattcttttt ggaaatcatt taagtgttgt attgaagtac tatatttttt gtgcatcaat 420
gtatttttct atttacaagc ctatgtaaaa gtgaagtgtg tcttcagtga accatgtgcc 480
aattaagctg taataaaaaa gtggtctagt ctgtcaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 569

```

<210> 908

<211> 378

<212> DNA

<213> Homo sapiens

<400> 908

```

gtttgcagtt agaagcaggt gttgtaacat ctattaaatg attttataaa tcttgggttt 60
tatcacattt gattaaatgc tgctaagcca ctgatgggtca attccagagg aaaaaaaaaa 120
tttaatgact acagttttata aaattaatca ccaggcaaaa ctacatatat aaaatgtcaa 180
aaggcttgaa tcatgaaaag aattcctcaa ccttgttacc aaattattgt tttcaggatt 240
cacaaagcat gttatatatc catttatatt tcagtttata catatgactg gtttctattc 300
ctgagactta agtaagtact tgggtgcgctt tttcttttgt tacaggtcag aaataaatca 360

```

597

ggataatgaa aaatagaa

378

<210> 909

<211> 693

<212> DNA

<213> Homo sapiens

<400> 909

```

aattcggcac gagagaaaaa gaaaaagaag gttaatcctt cagttatgga ggtgggatga 60
atagagcttg tttgatgtta aagtgggtaa ggagggagtg gccttgagac acttgatttc 120
caaaactctcc tggagggttc cagtagcact actgttccta aaagggtttc atttttaact 180
tcatctgttt tgtaaacatc cagtccaatt gaggtgatct cagaggtgca tcaggacatc 240
tagcactggg gagggccacct tgcccagata gttgaaaaga aaattggtct gggcagcctg 300
ttgtcttttg tcttcatgta atgttttttc tttgttttaa aggactaatg tttattacag 360
tgtaaaataa aagtgtgaaga tactaagtgt gtagaataaa agtgcaataa caaaagacaa 420
tgactttggc acacacttca gtctttatcc tctctccttt cttgtgctac ctggctcttt 480
ccataatatt gttacagcag gaccgtctta attgtgtgca ttttgaagag atgcgactct 540
gggttaatct tcattagtgt aatattgaag gggtgggttt ggttttatag agtattctgt 600
atacttgttg ggatacacaa ataccagatg tgctgtataa taaagatcac attaacgttt 660
waaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 693

```

<210> 910

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<400> 910

```

ggcacgagct gacccggaat ggaggaggcg gaggagctgc tcttggaggg gaagaaggcg 60
ctgcaactcg cccgcgagcc gcgcctgggc ctggacttag gatggaaccc ttccggagaa 120
ggctgtacgc agggcctcaa agacgtccca cccgagccga cccgagacat cctcgcttta 180
aagagccttc cccggggctt ggcccttggc cctcactcg ccaaggaaca gcgcttgggg 240
gtctggtgtg tcggggamcc cctgcagccc rgcygcatgg ntacctggcc aagaagttac 300
acagccccag tgatcagttc ccacccagag caaagaaccc agagctggaa nccaacagtc 360
tggntttcct a 371

```

<210> 911

598

<211> 684

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (676)

<223> n equals a,t,g, or c

<400> 911

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ggaacttctt aattgtaggt tcctctgaag cgatttcatg tagatatgtg agtgtttttaa 60
acaagtcctga aagtgttaca tacttttagg ttacaggggt gctggggaga cagctgagga 120
aaggaagaat atgtggaaga caccacggag ttcaaagttt taccctgagt tctatcttcc 180
atgtatgttt tgcttaaggc atttctcatg tgacattaga aaagctatat ccaaagggtam 240
atTTTTtTgtg gcaaagattt attttacact ttaacttttg ggattttatt tgtttcagca 300
aaataaagag cactgaactt taaacttgaa ttttttctgc acttttttag gtmatgaaaa 360
ctttttatta tcatttaatc cacatkgctc agtttaaacc aagtgatata tgtgtataaa 420
acataccaaa atcatgaata tgctgctagc tgtaccttaa ataaactgat cagtttttaa 480
acctttaata gggttttata tagatwtwwa aaatagtaaa ataactctgct gtatgtttca 540
gtgttcttgg tcttaaatta ttgcaacact ttcagatttg atntaagatc atacagtaac 600
atgttatatt tatacatact gctagaaaat atacttttag ttttaaaatg gaatttttat 660
aatgtactt taattntaaa atgg 684

```

<210> 912

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

599

<223> n equals a,t,g, or c

<400> 912

```

ggtgaacccc aagttaaaac cttccaaggg cttcccaatg ctcttaatat aaaatccaaa 60
ctgtcccata tgatctgacc tctcccaaac tctccagcct acttttatgc cactttcccc 120
tttactctct atagtttggc catatttgac tcctctcact tcttcacccc tgtkttctca 180
cagtacaatg tacatacggt tataacattg atcccactgt actgtattct ctggtttgcc 240
tttcctcact agaatgtaag ctctcagaa ggcagtgaga ccattgctta tattaccctt 300
gcactcctag tttccggcag tggtgactca aacatttggt gagtaactga gcaaataaag 360
aaaaatagaa aagacaggag aaggaagagg taggctangg gaagataatt ttgtttttaa 420
acnttaagtt ttaggtggca ctggtttagt ggaatanaaa tgcacaanaa c 471

```

<210> 913

<211> 604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 913

```

gcgcgacacc anccctcact aagggaacaa agctggagct ccaccgcggt ggcgggcgct 60
ctagaactag tggatcccc gggctgcagg aattcggcac gagtaactat agcagctaag 120
catttgaatc agacttctca tagcaatggt atgggctgtc tgatatattc aggatttggt 180
gagcagataa gctgtgtgtg atcttactca ttctcagcca tgccgcagac ataccattt 240
cccttagta attttttaat acagagaatg ctattaactg ttactggata tcaaataatt 300
ttatttttct aatagtattt tccaaatatt tcttaaaatt cttaaaattt aggttaaagt 360
ttgctggtct cttacattta ataaagctgg gacttgaaga cttaccatag ttttcaactg 420
cctttgcaag ttcataaact tctaagggtg aaaagtgaat aagataaatt cagagtttta 480
aggtaaaggc tttatattag cttttttttt ttttaaagggt tttttgtggg gtttttttgt 540
ttttnttttt ttttgggatg gagtctcgct ctgtcaccca ggctggagtg cagtggcacg 600
atct 604

```

<210> 914

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

600

<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<400> 914
ccccacaatc ctaggcctac cgcgcgcart actgatcatt ctatttcccc ctctattgat 60
ccccacctcc aaatatctca tcaacaaccg actaatcacc acccaacaat gactaatcaa 120
actaacctca aaacaaatga taaccataca caacactaaa ggacgaacct gatctcttat 180
actagtatcc ttaatcattt ttattgccac aactaacctc ctcggaactcc tgcctcactc 240
atttacacca accaccccaa ctatctataa acctagccat ggccatcccc ttatgagcgg 300
gcgcagtgat tataggnttt cgctctaaga ttaaaaatgg cctagnccat tcttaccaaa 360
anggaaa 367

<210> 915
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<400> 915
gaactttgca ttttgtasta aaaaataggt ttcttaatat atgtgattgt aatggcatac 60
aaggctttta aattcatgtg catataagat aaattttaaa tattcttaga gggttttcat 120
gaaatatcac cttcacatat ttcacagtt cagtacaaaa tgcaaaaatg tctattgnat 180
aaaacgggag atttaatcac gaccacgtta ggaatctccc agttaccctt gggaacacag 240
ccccccanag tggagacatg cttagactgg cattctgggt caacat 286

<210> 916
<211> 1060
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (684)
<223> n equals a,t,g, or c

<220>

601

<221> misc feature
<222> (819)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (842)
<223> n equals a,t,g, or c

<400> 916
gctccgcag cgctgtcatg gcgtcctgcg gcgccggaag gactggaacg tgcgcctgca 60
ggcctttcttc accagtgaca cggggccttga atacgaagcc cccaagctgt accctgccat 120
tcccgagcc cgaaggcggc ccattcgagt cctgtcattg tttgatggca tcgcgacagg 180
ctacctagtc ctcaaagagt tgggcataaa ggtaggaaag tacgtcgctt ctgaagtgtg 240
tgaggagtcc attgctgttg gaaccgtgaa gcacgagggg aatatcaaat acgtgaacga 300
ygtgaggaac atcacaaaga aaaatattga agaatggggc ccatttgact tgggtgattgg 360
cggaagccca tgcaacgata tctcaaagt gaatccagcc aggaaaggcc tgtatgaggg 420
tacaggccgg ctcttcttcg aattttacca cctgctgaat tactcacgcc ccaaggaggg 480
tgatgaccgg ccgttcttct ggatgkttga gaatgttgwa sccatgaagg ttggcgacaa 540
gagggacatc tcacggttcc tggagtgtaa tccagtgatg attgatgcca tcaaagtttc 600
tgctgtcac agggccccgat acttctgggg caacctaccc gggatgaaca ggcccgtgat 660
agcatcaaag aatgataaac tcgngctgca ggactgcttg gaatacaata ggatagccaa 720
gttaaagaaa gtacagacaa taaccaccaa gtcgaactcg atcaaacagg ggaaaaacca 780
acttttccct gttgtcatga atggcaaaga agatgtttng tgggtgactg agctcgaaag 840
gntctttggc tttcctgtgc actacacaga cgtgtccaac atggggccgtg gtgcccgcga 900
gaagctgctg ggaaggctcc ggagcgtgcc tgtcatccga cacctcttcg cccctctgaa 960
ggactacttt gcatgtgaat agttccagcc agggcccaag cccactgggg tgtgtggcag 1020
agcaggaccc aggaggtgtg attctgaagg catccccagg 1060

<210> 917
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (694)
<223> n equals a,t,g, or c

<220>
<221> misc feature

602

<222> (703)

<223> n equals a,t,g, or c

<400> 917

```

gggcacatcttc cttccttgat tttaagtctt cagcttcttg gccaaacttag tttgccacag 60
agattgttct tttgcttaag cccctttgga atctccatt tggaggggat ttgtaaagga 120
cactcagtc ttgaacaggg gaatgtggc tcaagtgcac agactagcct tagtcatctc 180
cagttgaggc tgggtatgag gggtagacac ttggccctca caccaggtag gttctgagac 240
acttgaaga agctttgngg ctccaagcc acaagtagtc attcttagcc ttgcttttgt 300
aaagttaggt gacaagttat tccatgtgat gcttgtgaga attgagaaaa tatgcatgga 360
aatatccaga tgaatttctt acacagattc ttamgggatg cctaaattgc atcctgtaac 420
ttctgtccaa aaagaacagg atgatgtaca aattgctctt ccaggtaatc caccacgggt 480
aactggaaaa gcactttcag tctctataa ccctccacc agctgctgct tcaggataaa 540
tgttacagca gtttgccaag gcggggacct aactggtgac aattgagcct cttgactggt 600
actcagaatt tagtgacacg tggctctgat ttttttgga gacggggtct tgctctcacc 660
caggctggga gtgcantggc acactgacta cagncttgac ctncaccaggc tca 713

```

<210> 918

<211> 595

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (566)

<223> n equals a,t,g, or c

<400> 918

```

ganacnacc tcactaangg aacaaagctg gngctccacc gcggtggcgg ccgctctaga 60
actagtggat ccccgggct gcaggaattc ggcacgagct gaattagaca tattctttta 120
aaataagatc cgttgtcagc catctaaaat gtttttataa attcatactt acattctttt 180

```

603

```

ttgccggttg cagtcagcct ttagtgccaa gagagaacat tacagcatgg atgaatgcaa 240
ttggtttgat catcactgcc ctaccagtga gttaataatt gtgatttgta cttagtgatg 300
aaatacagcc agctgttcca tgtcagcaaa aagaaaaaga tgcataatagg atgcccttgt 360
acgggacgtc atgcaaatta atgaagtatt ttatgttttt aaagtgtttt catattatta 420
ctgctttaa aatctacagt gactagtttt tgcttttctg tattagatct aaatatatct 480
atgtgactta cgggtctctg cattttctgg taccacctta cctatccaac tttagtgttt 540
acataatagc ttgatctact cttggncact taacgtgttg tatatctaca gcctt 595

```

<210> 919

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<400> 919

```

ggcagagctt ggctagattt gaagtgtaat agattaagga aagaaaatcr gttatattct 60
tcasaatagt ttgtctgagt tcatgcttca tgactgtcat gtgttgagtt atctttctgg 120
caagtggaaa tgacggagga gccttaacac gtgtctactg tggaatgttg ttgctaaagn 180
gtaggagaga gctggccagg cgccgtggct cagcctgtg aatcccagca ctttggngg 240
ccgaggcggg aagatcacct gagatcaaga gtttgaga 278

```

<210> 920

<211> 347

<212> DNA

<213> Homo sapiens

<400> 920

```

gggatgcgga ccaccttttg cagaactcat atctcgagca gtttaaattg cttgtgctg 60
ttaacaagaa tactgaccag aatgctcttc atgtagetta tacagttggt tcacttcag 120
cggttcttga catgtttatt tctaccetta atgcaatgaa atgtttcatt aataaaaaaac 180
cactttatat aaaattgctc tagaagtcac atgtcattgg atgtcctgtt gtttatggag 240
tttccctgga aagatgttcc ttgacagatg cagccctgag tcacacactt gggccatgtc 300
tgatctagag ttcgctgtag tggacagtta caatcagccc tcgtgcc 347

```

<210> 921

<211> 153

<212> DNA

<213> Homo sapiens

<400> 921

```

gttgtgaagc atgcacggga aaggcaccca ggtcaggggg gatccccgag gagatgcctg 60
agctgaagga ttgtggttgg ggaaagcgta gtcccagcaa ggaagcagtt tgtgggtaag 120

```

604

tgctgggagg tgagtggagt gagcttggtca ggg

153

<210> 922
 <211> 930
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (46)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (170)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (173)
 <223> n equals a,t,g, or c

<400> 922
 ccccaaggcc gtgggggacca atggtaaaaa ccaattacca ccttgntgcc gcaccttaaa 60
 gactggatgg tgtatattat tcacaattac atcctctttc ccatagcctg gcagaggaaa 120
 gtagttagca gcacggaaca atttcaacat ctactggag tctccaaaan ccnagcagat 180
 actgcaggat gtcattaagc aacttactgt cacttcacac catatgtggc agtaagaaac 240
 ttaattttta aattaaagg cacgcataag ctgatttcaa atattttaag tccaggctac 300
 tctctttaga tacaatgttt tgaacacttg tatagaaatg tttattttaa aactgttcta 360
 tacaagtgtt caaaacattg tatctaaaga gagtagcctg gacttaaaat atttgaaatc 420
 agcttatgcg tgccttttaa tttttttttt aagttttctta ctgccacata tgggtgtgaag 480
 tgacagtaag ttgcttaatg acatcctgca gtatctgctt gcttttggag actccagtga 540
 gatgttgaaa ttgttcctgt gcttggttaac tactttcttc tgccaggcta tgggaaagag 600
 gatgtaattg tgaataatat acaccatcca gtctttaatg tgctgcaaca atgtagtaat 660
 ttgttttttt catttggtcc cactgccttt gtgtacatag aaaacttaaa aatttcccc 720
 agtctattag aagttaagat gttccctaatt ttattaaata tgcctttatt cacaatttgt 780
 ttttttaggt tattcttaatt gcattataga attaagtatg actttgttta tttttattac 840
 agtatgtagt tattgacata ttgtggtttg cagaattatc aattgtataa actaaacctt 900
 taaattaaaa aaaaaaaaaa aaaaaaaaaa 930

<210> 923
 <211> 1358
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (681)
 <223> n equals a,t,g, or c

<400> 923

605

```

tcctaccaca aattctacat caagaagaaa gttttaaagt tagactggat ttatttgtga 60
ttttatggag cacaataagg tacattgaga tagcatacta aaggaggcca aatacaggaa 120
gcatcatctt ttcttattct cttactgcct ggattttccc actgacctgg aattgtgcac 180
agttctacaa aggacaattg acattgtttt ccttttacta agtagtgggt tttccttaag 240
gtccagactg aattttgaga cctgtaccag gattgccttc tgtgtgactt tttcttgacg 300
gatctgacat cattacctat ggggtccatat atttgtgata ctttggtttc gggaacatca 360
cttttagaat gttgacataa aatgcaccca cagaatgccg tatttatcaa aagtaacttt 420
ctagcaaaat ctacagcagt aggcatttgg aatctgcatt tgagacctct gcagtcattt 480
ggtcattcca gcaatctatg tccaggttgt caatttcaga ggtctyatta rtctatacag 540
gtaccaatga gctttcagat gttcaacacc taccctggc ctaactgctg ataaccaacc 600
ataacccttg cagatgcatg cwtgttttct gcaccttgct atcatttttc artccatttt 660
tcacatgtat acatagtgat natttttaaa tgcaaccctg atttcacatg cctcatgttg 720
aaatatcgtg tggcttattg kggactwaaa gkgtaacatt cyccytawgg takgtaagga 780
cttttgtaya aaccaatgcc tatctateya wcatttctga aaactttttc cycctakgca 840
atattttctg gcctctgtga acaacttgta gttccttgag attyctatta tcacttawgk 900
ttttgcaaat ctgcaattga aatgcccttg ttccttggtta atgcctattg aatctatatg 960
aacctgtacg tgtgtttctc actgtgataa tataatcatt gcatgtttta tctttccac 1020
tagaaagctt ctagaaagct agkactatct tttttgtctg tgtaattttt gcatcacaag 1080
ctatatttta atgtgggtgc agtgagtggc tgttttctgc cacatggaga aacatgggtc 1140
gcagtgagag agaagaatga agccatgatg aaagcaaaat caagaaagag tcccgaattg 1200
gttccagtac ctggttcttc tggcttctcat gttcaggtcc acctctgccc ttttcatgtc 1260
ttgattgttg aattcttctg tgagatactc caaatatcct aataaattct catgtttgct 1320
tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1358

```

<210> 924

<211> 79

<212> DNA

<213> Homo sapiens

<400> 924

```

gcccackcgt ccgcaagaca ctcatgccct ggcaatgtgg ctgccagaaa ctgggtggggtt 60
agcaacaaca ttctctggc 79

```

<210> 925

<211> 1426

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1391)

<223> n equals a,t,g, or c

<400> 925

```

tcttcactct gatgagggct cagacttgat aacgcccgtg gtgccccatc cctataggag 60
ctggtgagat tgcagcctgc tgctctccct ccatcagcca cagctattgg atttcccacc 120

```

606

```

cagaatcttt aggtaaatga gatcatgatt ctggaaggag gtggtgtaat gaatctcaac 180
cccggcaaca acctccttca ccagccgcca gcctggacag acagctactc cacgtgcaat 240
gtttccagtg ggttttttgg aggccagtggt catgaaattc atcctcagta ctggaccaag 300
taccaggtgt gggagtggct ccagcacctc ctggacacca accagctgga tgccaattgt 360
atcccttttc aagagttcga catcaacggc gagcaccttt gcagcatgag tttgcaggag 420
ttcacccggg cggcagggac ggcggggcag ctccctctaca gcaacttgca gcattctgaag 480
tggaacggcc agtgcagtag tgacctgttc cagtccacac acaatgtcat tgtcaagact 540
gaacaaactg agccttccat catgaacacc tggaaagacg agaactatth atatgacacc 600
aactatggta gcacagtaga tttgttggac agcaaaaactt tctgccgggc tcagatctcc 660
atgacaacca ccagtcacct tcctgttgag tcacctgata tgaaaaagga gcaagacccc 720
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cgcgacatcc tcttgaaccc agacaagaac ccaggattaa taaaatggga agaccgatct 840
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gtcgattaaa aaaattatth tgttacttcg aagtatgtcc tatatgggga aaaaacgtac 1260
acagttttct gtgaaatatg atgctgtatg tggttgtgat tttttttcac ctctattgtg 1320
aattcttttt cactgcaaga gtaaccaggn tttgtagcct tgtgcttctt gcctaagaga 1380
aaggaaaaac naaatcagag ggcattaaat ggttttgtat ggtgac 1426

```

<210> 926

<211> 724

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<400> 926

```

ngaggaccag tatthttgtta aaaagggcat gcaggamayc ttctctgcct cctacccttt 60
ctcatctccg gctccatctc cagctggccc ccagatcctg tggcgacggg tccccatggc 120
agccacctgc tgacctatca ggactcycta tagaggaagt gtccaagtca ctacggttca 180
ttggtttgtc cgaagatgtc atatcattct ttgttactga aaagattgat gggaaacctgc 240
ttgttcagct aacggaagaa atcctctcag aggattttcaa attgagcaaa ttgcagggtga 300
agaagataat gcaattcatt aatggctgga ggcccaaaat atagccaaat aacccccggc 360
cagcatggaa caaaaactgat caatgcgtgt gctagaaggg gtgggctggg acacaatttc 420

```

607

```

atgttttttgc actaaaaaacc ttctctgttaa ataggggataa gagaaactct tactatgcag 480
attacgttttt tgaatgggtga acagggtatt ttgtacatca ataaaaatgc tgtacagaac 540
acttgagggt gtgccttgta cgtcactcaa caaacactca gcagctgcta aaagaaaaaa 600
aggcatgtgc agagaaatca ttcttaccga agtaggttta tgtgagaagg tatgatattt 660
attacaaaat agccaaagct gaaagacata aaaatcttta aaanaaaaaat aaangggcg 720
cccg 724

```

<210> 927

<211> 641

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 927

```

tnaataacat caatgatgac tcctacagta tatttagtaa aagtgagaat gaggtaaaaa 60
gccctactat gtttttaaat agcaagtga agctcagtgc tagagtggat atacacaccg 120
catgttttca tatgtggcac ttttatgtat catgttgggt tattgttcta gactggactg 180
ttaaatacta tgtttgaggc tgggttgta tttttataac tgtcttggtg ttttatggcc 240
attatttatt acttttgata cacagaatga gctgcatgca tttatagagc aataagagga 300
tgtatttaat gtgccttggt ttttaactgaa taagaactgg aagcatgaat caataaaact 360
gattaaaaatgt gtctatttgc tagcattttg atgttacttg cagtcagata actttgatta 420
ctgttggaagt ttaaaaaaag tttgaaaata tttttacaaa ctgtgttttt gatgacacaa 480
aagtgaaata tctacagaga tagatgtaat tttataagac tgccagaatt atttgtatta 540
atttgttgct gtagccttta gggcatgact tctgtatttg tgcaatccta ttctacaatt 600
acattcatcc tattacaact caaaaaaaa aagtcgacgc g 641

```

<210> 928

<211> 245

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<400> 928

```

cagctccac catggcggag accaagctcc agctgtttgt caaggcgagt gaggacgggg 60
agagcgtggg tcaactgccc tcctacctgg acagcgcgat gcaggagaaa gaggttcaaat 120
acacgtgtcc gcacagcgcc gagatcctgg cggcctaccg gcccyccgtg ccccccgct 180
agcgccccac cccgcgtcta tcgccaata aaggcatctt tgycgggaaa aaaaaaagna 240
aggaa 245

```

<210> 929

<211> 297

<212> DNA

<213> Homo sapiens

608

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 929

```

agagcgagac tccatttcaa aaanaaaaaa aaaaaaaaaa aatcacttgt agtcttgggtg 60
tggtatcaaa gaatagccac aattagctga aaaggctatt ttaaaaactt ttccaactgc 120
gtatctgtgt gaagtcaact tacttcaaca aaaaagtttg gatgtagaag cagctgtaag 180
aattcaactg tttattataa caagatacta aagagactgt aaaatgccac ctttctcctt 240
ggwttgtttt ggaagttatt cttcataaaa aatgttaacg tgggctgggc atgggtgg 297

```

<210> 930

<211> 579

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<400> 930

```

gctcgtgccg ttgagaattg tataaggact gtattgtata ttgtatgaga ttgtagatcc 60
aggatgagtc acagtatttt tgaagttgta gtaaattggaa tgaactagaa agatagaagt 120
taatgttcgg aaggcaggag acttaaaagt tagattgtaa aaatttgcaa ttaggagtaa 180
taacgtgggtt tgagctgaga tcatgagatt gaatagctag atactgaaga tagcaagtac 240
attggaaatg atgagggtcaa atgtcaaaga agataagtaa tttaaatgag acatcaaaat 300
aatggcagtt aagtcagggt gtaaagactg caaagaatga gggaaagtga ctaaacattg 360
ggagagtgat caatataatc aaatagtatg agattccaag ctggaggggt ttgaggagaa 420
ggaagtagaa gtattctgca agaggacact tattttactt ctagaggcag tggntagagc 480
actgagggtt gagaactant ctgcacttaa ggggcgacat gagaagcagc agcatcagtg 540
agagacagat gaccataaga atgaaaatgt nnagggaaa 579

```

<210> 931

609

<211> 670
<212> DNA
<213> Homo sapiens

<400> 931
gtttgaactt tgaaaactgg gcaacgggga gaacctgctg tgaaacagac agcttttctat 60
tgtgtctaga gtagcgcaga ctttctaaga aatggatgtg gatagagtat gtattgggtgg 120
catgcgcctg tagtcccagc cacttggagg ctgaggcagg aggatcattt gagtccagga 180
gcttgaagct ataatgcgcc accatgtctg tgaatagcca ctgcactcca gtctgggcaa 240
catagcagga ccttttctct taaaaacaaa aaagagttcc ggtgaaatgg ataaagcaga 300
ctgggaagga cgaagcctgt kgggctgggt gggctgagtc ccaaccagct tcatcagtgg 360
tgatcctttt gaacttgtac caaagtttcc agaacagagg cggcatggat ttacccttgt 420
gtgatgtctg atctcagaga tgggactctg tgattggcct ttgttgaact gacaggtatt 480
tgaatgtgca catcctacgt aggacatcgc attgagtgtg ggcatagtgc cagggcagct 540
tgcctcatcg ttaccaaacg cgtttccttg gatctgtcat tctgtccatt gtgctttctc 600
ctgttactct agcagttcag tgaatgtaag attactactc tgtatatgga actttgaaaa 660
caagaatgaa 670

<210> 932
<211> 1755
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<400> 932
gactaggnga agatgctcta gaatttamcc aggtttttaa atcagtaatt targatttct 60
aaccattkga acaaatttta cttacatgta tgcacatgtc atttttcgtg tttctatttt 120
tatgttctca aaggtaggat aagggaagga aggaggaaac agcccatthg gggttcaaga 180
gctagctctg ctaagggctt gtaagctatt tctattctgc cttttggctt ttttcttgtt 240
tgtcttgtct ttatttttaa atgaaattct tgaagctatg tattgaattt tctagtatag 300
aggatgtgac ttccacctcc aaattccatt taactgattc ttttaaaaga aagataggcg 360
tatatacacc acgcaaaaat aataataagg tacctatgtg agaattgcaa attatacccc 420
agggtagcat ttaggcagcg tcggcaaaaa gtgagttaat aaatcagaag ctacatatta 480
aaaaaaaaat cagtcaatcc gtcgtgtgtt taawtcttgc cttaaagtaaa tggagatatt 540
gttttgcttt ggtaaccagc aatttttaatt ttttttttat tgcccgcaa ttgagattgt 600
tttgtaaaaa tctgttgatc tagcagcaag tagaattatt caactggaat cttgtattct 660
attcagagct taattttccg ttaaggaaaa aaatgagctt cagtttgtgt tgtgatgtgt 720
ataatttgca tgctgaatca caacatgctt ggagagattg tagagactct ttggtaaata 780
atctaacctt tacaatttyc cgtttatatg ttaacmtttt tctataatat gagtgccttt 840
ccaatgcaca gatatttttt atggctgtaa tttctctgta aaaataattt ttaagcatac 900
attttattct ttttttgcaa caaccgagat tttccaaga ttgttctgtt tcccccgcc 960
ctcctagctc ccgccccgt cacttcggcg cttgtatttt ctaattattc atgggtgcca 1020
tgttgagtgt ttgtaatttg accaccacag gtaagcttcc tgtttacttg aacactcagc 1080
ctcatctccg gtgaatgaag ggaaaagcac agatgggttt ctcccaggca cagctcactc 1140
caaagggtgc ttcataagag caaccagcc tttctcaagg gagcatttcc ccacttaatg 1200
tgtttatcag catctttctt ccgccaagaa ttcaagagca ttttcaaaat tgatagattt 1260
tgggtgcagtt ttgcaagttt ccgtggaagg ctgtctcccc cttctgggat ccacccccat 1320

610

```

gtcgggacca gatcggtgc agggagtcac gtttatgaaa tgttggtggt tttttttttt 1380
ttttcattca tactagaagt gtttttataa cgaaaatctg cactttacaa ctctgcaggc 1440
catgcatgca atggtgattt acagccttgt ttacgtgtaa ttcctccagg tgatttatcc 1500
caatttatgc aaagatccta ttttaaacag acacggagaa gtggttaaccg tttcctaaca 1560
gcagcaagaa tgccccctcc gtttgcctgg tgaaaagaac tgacattaac agcagcttgg 1620
aggcttcgag gaggtgggga cgtggcctga gctcgggacg ggggcccagt gcgggttgtc 1680
ggagcgtggc tgcccggcga tgtctctgta tttatcaata aatctcccgg ttgctctggg 1740
aaaaaaaaaa aaaaaa 1755

```

<210> 933

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (687)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (690)

<223> n equals a,t,g, or c

<400> 933

```

tttcacgcg tccgcccacg cgtccgcccc ngcgtccnng cagggcagag aatcccccca 60
attcctgcct gaaatctctg gcctcaccce tgcctgggggt tggactgaaa accctcctcc 120
ccaatttggg ggggtgttgc ccatcactgc ccagctcctc tgactgcccc ccctgaattt 180
agggtggggg tactagtcac tgccaatgtg tgtatgggac ttgctggaaa acgggggatgc 240
ttgcccctct ccaggactat tgagcccaga gagagctgtc ctctcattgg gtgaactgat 300
tgaggaaggg tctattgtct ttttaaatgg cacaatttta agggtttgag ggtacagtcc 360
cttaacctgc cacgggaggg gggccccaaa ctttcttccc cccacacttc tggttttctg 420
tgtggagggg gagcagggat atctaagctg tgggtgtgaaa gggtaggaga gatgctggag 480
gtgggggtgc tgtgttctag acccccata ttatcccagt gtcccctgcc cccctcttcc 540
cccaccccat gcccctaatt ctgtggcgca tccagattgt gaaaatgtac aataaatgtg 600
taatgagtaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660

```

611

aaaaaaaaaa aaaaaaaaaa aaaaaanttn

690

<210> 934

<211> 1711

<212> DNA

<213> Homo sapiens

<400> 934

```
cgagatgtac cggtagacagc aggacgagga ctcggagggc gaagagaaga gcgatgggga 60
gttgggtggtg ctcacagact gatccccggt gggtagggccy ggccccctct cctctgggga 120
agaccttgtc ccaactcgat gggcacagcc agccaacctt agactatgtt ggtacttgga 180
cttgttcgtg cccagagat gggcaaagct gtgcacttgc agatacattc atgaggggag 240
aggcgccctc ccttcctgag gagctgttgg cctgggtggg caggaactgc agtatggyca 300
tgggctgagc aggttgagca cctcagcctt tagggcttat ggccagggga cactgtatga 360
ctctcctctc ctgcaggtgt ctatccacct ggggtatggc atctaccgac ctgtctccct 420
ggggtcacat gctttgtttc cattcttgtc ctggctggac cagccactgt gggaccaaca 480
cccctyccac actccccag actgctcgtc tatcaccagg atcgctttgt actttgtgca 540
aaagggctctg gctgtccctt gctgttttca tctctgcaag cctattgtgc ctctggctgc 600
tgtatgtgtg cgcgtgcacg tgtgtgtgtt tcatctgktc attcactgca caagatattt 660
awtgagtgcc cactacgtgc caggcactgt tgctgagttc ctgtgggtgt gtctctcgat 720
gccactcctg cttctctggg ggcctctttc tgtgtctctc tttgtcccca aattgctacc 780
tctttgtcag tctgggtgtc tcaggttctg tgtgtccttg tgtgcatttc tgtctctctc 840
tgtcctcgtc tctctgcaag gccctctatt tctctctttc ttgggtgtctg tcctttgccc 900
cctgtgccct ctggattctc tgggtctatg tagggccctg gtctgccctg gctcatcagc 960
cttctgacc tctcctgcc ctcctcttca ctccctcctg ctctgcagtc gggtccacg 1020
gagccatttt tagctctgat cagcatggga atgtgccctg gcctccaagg ggctttgtcc 1080
tggtgcccc gcccctggtc ccaacctgat ccacagagg agttgggaca ggaggattga 1140
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tctttattcc tccctcatga gcacagggtc ggggggggtcc ccattcttgg aagaggttga 1260
gaagactcct gggttccagc ctctccacc cagccctgcc cctcacctgc ctgccctccc 1320
ctccccact ctatactagg gactggatct cagcctctga tcagtttcac aaagtttgtt 1380
ccctaaggaa atcaaatccc attgtcacct aactctgaag atctaaatag cccttgatc 1440
agtaygggaa ccccaaatyc cacagggcca gatgtggagt ctgtgtctgc ccccgctctc 1500
tctccatcct caaagcccc acttctctcc aggtgtttc tttttttatg actgtaaaca 1560
tagatagtgc tttattttgt taataataag ataatgatga gtaacttaac cagcacattt 1620
ctcctgttta cactcggggg atttttttgt tttctgatga cataataaag acagatcatt 1680
tcaraaaaaa aaaaaaaaaa aaaaaaaaaa g 1711
```

<210> 935

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 935

```
tgaatctttc attcttacct gaataatttc acactctcca ttactctngg tctcctaag 60
gtctcctgtg gagagtgaat atttccatcg cacttacttg ctactttcaa tgttctcaat 120
```

612

```

gtcctattgg actcactagg gcttagctct gtgggttgaca catagrtatg cagmttttca 180
aatgtctgga atgtgttact ctactacatg ttttttgaaa tggaaacaga tggaatgact 240
ggctactgta ataatactac agcagctcca taatgcatga aatcctaaaa agtatgtaat 300
attataagta tcttttcaat acaggtttca ttgctattat tcatcagttt ccgtttagat 360
tacctgttcc gatttaataa cctttgataa atttgaaaaa tttgtctttc aaacagagcc 420
tgtttagtatt aatgaagaaa atgagggatt tgaacataac acacaagtta gaaatcaagg 480
aattatagct ttgagttacc gtgactggga ggtaaagctc tgctgtttgc ccctgcatag 540
ttctgactct gccttctactt gcagtaagcc cagtgcctaa atgttcatta ttgtctgcca 600
ggagattgtg aagacctttg agatttcaga gcctgtgatt actccaagtc agaggcagca 660
gaagccaagt gcttgatgct agctgaagga ctcaaattgga tagtgaagtc caaaacggaa 720
agcggcatgt attgtacata ttgtatgatt caacattttt aaaggcagat tgtttttagt 780
aaaatgtagc ttttgatagt taataaattt gtcattggtt tctttgatta aaggaaactc 840
accgccatat tcacaaaaaa aaaaaaaaaa 870

```

<210> 936

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 936

```

aagggaatct taaatgggaa attcgtcant gccctaccgg tccggaattc ccgggtcgac 60
ccacgcgtcc tagtttcaat kaactcgaat gcggttgagt gcctgagagc acctgttgct 120
gtgggtatca tcaccgtgtg tgttttctgt etttctcatcc acttttcttt gtgcagctctg 180
cacacacacc attaaaggct gatgacagca tttttacgaa ttgcaaacag aggccagcgc 240
ggtggctccc agcacttttg gaggccgagg cgggtggatc acgaggtcag gagttcgaga 300
acagcctggc caagatgggtg aagccccgtc tctactgaaa atgcaaagat tagctgggtg 360
tggtggcatg cccctgtgtg tcccagctac tcaggaggct gangcagaga attgcttaaa 420
aaccggggag gtggaagttg cag 443

```

<210> 937

<211> 490

<212> DNA

<213> Homo sapiens

<400> 937

```

agctggagag gaagggatga aaccagctgc tgttgcaaag gcwgcttgct attgatagaa 60
ggactcacgg gcttggattg attaagacta aacatggagt tggcaaactt tcttcaagta 120
ttgagttctg ttcaatgcat tggacatgtg atttaaggga aaagtgtgaa tgcttataga 180
tgatgaaaac ctggtgggct gcagagccca gtttagaaga agtgagttgg gggttgggga 240
cagatttggt ggtgggtattt cccaactgtt tcctccccta aattcagagg aatgcagcta 300
tgccagaagc cagagaagag ccaactcgtag cttctgcttt ggggacaact ggtcagttga 360

```

613

```

aagtcaccagg agttcccttg tggctttctg tatacttttg cctgggttaa gtctgtggct 420
waaaaatagt cgaacctttc ttgagaactc tgtaacaaag tatgtttttg attaaaagag 480
aaagccaact                                         490

```

```

<210> 938
<211> 1165
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

```

```

<400> 938
gacagtcacn gtacngnaat tcnggccagt ncgacgctgc aaggggggacg cgggtcggac 60
gcgtccggct gtggaagaga gcggcggccg ctcacaacat gcacagcctg gcgacggctg 120
cgctgtgcc tactacactg gcacaagtgg atagagaaaa gatctatcag tggatcaatg 180
agctgtccag tcttgagact agggaaaatg ctttgctgga gctaagtaag aagcgagaat 240
ctgttcctga ccttgcaccc atgctgtggc attcatttgg tactattgca gcacttttac 300
aggaaattgt aaatatattat ccatctatca acccaccac cttgacagca caccagtcta 360
acagagtttg caatgctctg gcattactgc aatgtgtagc atcacatcca gaaaccagggt 420
cagcgtttct cgcagcacac atcccacttt ttttgtacct ctttttgac actgtcagca 480
aaacacgtcc ctttgagtat ctccggctca ccagccttgg agttattggg gccctgggtga 540
aaacagatga acaagaagta atcaactttt tattaacaac agaaattatc cttttatggt 600
tgcaaatat ggaatctgga agtgaacttt ctaaaacagt tgccacattc atcctccaga 660
agatcttggt agatgacact ggtttggctt atatatgtca gacgtatgag cgtttctccc 720
atgttgccat gatcttgggt aagatggtcc tgcagctatc caaagagcct tctgcccgtc 780
tgctgaagca tgtagtgaga tgttaccttc gactttcaga taaccccagg ttttcagatt 840
tgactttctg ctggtcatct tttcaaagaa aatgaaacgt ttaaaagttc atctgataat 900
actgctacca tagttttggt ttcactgctc atctcttatt aaggttttta accataaaac 960

```

614

```

tgaagcaatt tctgtaaaga cacaaattga taacttagta tagaattaaa attcattaag 1020
ttatcataag tttgatgata tccttgtaa tgtactgatt tttgaattat tttatttgcc 1080
ataatccata tatttctaac atgagtattt tgacagtatt taataaatca gaaagctgtt 1140
tgaatggaag taaaaaaaaa aaaaaa                                     1165

```

<210> 939

<211> 448

<212> DNA

<213> Homo sapiens

<400> 939

```

tccgtctcct agtgtccgga atcggtctgc agtccctgg ctgttagtac cttctttccc 60
ggagtcctgg tccacgagtt ggatttactg ctgtcgcggtg tgggcctcac gccattccct 120
gtccctcggc cccctgagtg agtccggtct cccggcgaaa gtgagcgagg tttgcccgga 180
gcgcgcacga ggggaaaatg ctaaaaaaaaa agactggtgc gaggaagaag gctgagaacc 240
gccgagaacg tgaaaaacaa ctaagagcat caagaagcac tatagattta gctaaacatc 300
catgtaatgc ctcaatggta tcagcttttt ttgatatcag ttggtagttg gaaaaactat 360
atactatttt atctgacgta tacctgaata aaatttttagt gaagacagtg ttttttggca 420
ttatagtttg ttggtgaatt tagtatct                                     448

```

<210> 940

<211> 932

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (897)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

<400> 940

```

gagagtattc agcacaataa tgttcttaaa cccatcaacc tactttcaca gcaaatgaag 60
ccaggcatga aaagacaaag gagtttatac agagaaatcc tcttcttatac attagtgtct 120
ctaggaagag agaattattga tattgaggca tttgacaatg aatatggaat tgcatacaat 180
agtctgtctt cagagattct tgaaagggtg cagaaaattg atgctccacc aagtgccagt 240
gtcgagtggg gcaggaagtg ttttgagcg cctctcattt aaatagagat tcactagaat 300
gttgacacac aaggcttggg gattagattt catctggaaa cattcaagtt tttttttcca 360
aatcgtaaga actggtgaat acggaattga agtaactctt ggggacaata tataatgaat 420
tatgattcat attgcattac cttgaaatat gaagtgccat ttgaatgtcc cagggttat 480
taatattgaa gatthttcaac cctgaactg cttttctgcc tctgtggaaa actactttgg 540
gattcttcag tattttagtg agtttgatag aaataatgag gaaccatatt cattctaggc 600
attgthtata tttgaagtta ctgagtttga ggaatggcaa attaaatttg cctaaccctc 660
aaaacaaatg aaatatctca attataaaag caacatggcc gggcacggtg gctcaggcct 720
gttaatccca gcactttggg aggctgagca aggtgggtgg atcacttgag gccaggagtt 780
cgagaccagc ctggccaaca cggtgagacc ctgtctttac taaaaatata aaaattagcc 840
aggcgcacca ctgtagtccc agctacttca ggctgaggca ggagaatcgc ttgaacngag 900

```

615

gcagagggtta catggagtg tgatcacgnc at

932

<210> 941

<211> 735

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (640)

<223> n equals a,t,g, or c

<400> 941

```

gtggcacatg aaattttctca gatcactaat gatcttgac agattattat tcctaaagat 60
aactcatctc tcttgaaaag gttggcatgt atagctgcat ttttttgagg actcctcatc 120
ttatcatcca ttcaagataa atcaaaacat taggttccaa aaattctaaa aaacctaacc 180
tcttcagggt accttttgtgt gtctctagaa gagaaaagca tctatctgga gatataaatg 240
tgtatgtaaa tataaacggt tgtggcaaga ggacagttct gtgacatctg ttgaacatat 300
gtggttgat atattggaaa tgtacatc caatatgaaa tactaaraca aacaaacaam 360
caaaaaacca gaatgcattg tataggattg catgtgaagt cttttctact gaatctatat 420
ttccatttgt aagtgatttt aagttaacat atgaaggcag ggaaatgatt acctttccag 480
taaaaagtat agataattta attaaccttag tgacaccacc aagtgttttg aatataacta 540
aatgtgtgt aataagactg tctgcacctg tattcattgt ggaacttctt ctttcmittg 600
aaactttctt actcaagaat gacggcagta ttgttttctn atatgtgcc aatgaaagtgg 660
gatgataaac agtatgcctt taatttataa tgtgtccttg ttctgaatg ttgtttcctg 720
gaaatgaatt ttcct 735

```

<210> 942

<211> 858

<212> DNA

<213> Homo sapiens

<400> 942

```

ggcacgagtg cgtctccagc gtctccagcc gtagtctgaa gggagcaggg tggcgactct 60
ggtgacaggg cgatgccagt cctccactc cagaggagaa cgaaaccacg acaaccagcg 120
ccttcaccat ccaggagtac tttgccaagc ggatggcagc actgaagaac aagccccagg 180
ttccagttcc aggggtctgac atttctgaga cgcagggtgga acgtaaaagg gggaagaaaa 240
gaaataaaga ggccacaggt aaagatgtgg aaagttacct ccagcctaag gccaagaggc 300
acacggaggg aaagccccgag agggccgagg cccagcagac gagtggccaa gaagaagagc 360
gcgccagcag aagagcagct cagaggcccc tgctgggacc agagttccaa ggctctgct 420
caggatgcag gggaccatgt gcagccgctt gaggggccggg acttcacctt gaagcccaaa 480
aagaggagag ggaagaaaaa gctgcaaaaa ccagtagaga tagcagagga cgctacacta 540
gaagaaacgc tagtgaaaaa gaagaagaag aaagattcca aatgaatcct tcccagccgg 600
ggccttccga ccaactcagct gtcaggggcac tgccgggggca gacacctctg gcctgaagtc 660
acagcagagt tcaccccaga gcgcctgggc gcattctgtg gcattgccc atggctgccga 720
gtcctgccct ctgcgccacat ttcccccaag ttacattccc aggaggacct ttttaattgtt 780
ctcaatcgtg gctctcagac acaataaat ttttttgtaa actctgaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa 858

```

<210> 943

<211> 1345

616

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (968)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1339)

<223> n equals a,t,g, or c

<400> 943

```
cccgtccaca atgcagcaga ctcttcccaa ggccacctag caagcaagggt tgatcggatc 60
atctaaactg gccgcctcct gaatatattca ctgaatcctg gcgttcatgt tgaagcagac 120
aaaatgagaa aggaggagggt cattgctcac ctctcaatag cttttttcgt tcaagttcta 180
tgtctttatc agctcttgcc tgtgatttta ccccaattca accttgggag tgggaagaat 240
atgaacagat aacccttggc ctaacagctc catcaaacct ccttgagagc aactacctag 300
gccaggctag tgagtgcctt gtgaggaagc tggtcagaag gttccctcaa ctccctcctg 360
gtcctcctgg acactgcaga aaagacttag gggatcccca gcagaggcca attgctctcc 420
```


617

```

ttccttccct gccccaccag gaaaggaata acgtccacag acttgaagca gatagtgaag 480
tagatctgtg agagggttcta ggtacttagt gtgtagactt tgacgaatat ttctcaagtt 540
gggagccctt gttaaaaatg atgtttaagg gagtgggttg ggggaagatg aaggcatgga 600
ggaggaagaa gagaaggaag cccttgccat ataaaattca tgcagactaa acagtttccc 660
tgacagaata aataaagtgg atgctacccc actccagaat caaaagcaat ttaattaaag 720
tctcttaagt tgtaaagagt tttaaatgat ccgtgttgaa ggcaatsct gcnaaatgca 780
gtgggtctga cgtcagctgc cgggcctggg ctgggaggcc atttgctatt ctgtttaagg 840
caggctggat tgtcttattt tggaaccagc ttggtggggg gtttgctttg ctactgcttc 900
tgagccctga gcttcaaagg ctgaaattaa tgggtgaacaa aattgtgagg ctctggccat 960
cccatgcngg gcaagcccat tgagggttat cattaagtaa agaaataaag agggggaaaa 1020
aagcctgcct gttccaaaaa cctcatcaga taatgacctc agtgattggg ttttcattac 1080
caaacagcat ccagagatta tcaacccata gaagaaggga ggggaaaaaa aaraaaaaaa 1140
ggaaaagcaa ctgnctttct ctcctctctt tctccttttt tttgcacatc ttttctttaa 1200
aactgncaga tcatattcaag tatttcaaat ccgaggaaaa cagcctggct gctgctggat 1260
ttgaagtgga atggggggcaa aaagcccact ggctgacanc cgcagtccca aagggnntat 1320
tnaatcttaa aacttgccng gaata 1345

```

<210> 944

<211> 1829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (918)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1411)

<223> n equals a,t,g, or c

<400> 944

```

gaattcggca cgagatttat tattatttaa ctctgcagt gagcaaatgt gagtaacatt 60
tgaatgaaaa taaattttca gcttatttac atgaggtaat aaacttgact ttatcaagta 120
attgtgggag tggggaataa acctcatctg gggatgggaa ataaacacca ctataaagaa 180
accactaaga tttgaatgcc ttgcttggtt taagtttggt gatgcaggta ttgcattgat 240
tatgcatcag ggaactggaa accaaggcat tcgttctttt aagaaaatag attcttaagc 300
ataggagtct catgttttaa gaactatttc taagttcaac taagatcgag tttttctgtc 360
tctattggca aktwtyaaga ggcataaact ttaaagaaaa agggaaaatg tgataaatta 420
atggaataga ctccataggc ttttattcca acttttataat gatgcaagtc tatgtgcttc 480
tgtctgactc acttattttct gtwatcaaga tgaactagtg aagggaattt ctctctcaat 540
gctaaattaa ttacatgcat tggggatagt catccagaga gaggggaagg gaccttctga 600
ngttgtcacy cagwaaataa ttgcctgagc tgagaatggc atgtgggtca cagaattggg 660
gtttctggat ttaggaaata ctctctattt tttttccact cctgctggct aagccaagaa 720
tggcaaatat gtgttcatgc tgctgcattc ccttccaggc ccataaggac gttggcaatc 780

```

618

```

cttcatagcc ttctcacagg cggaacctgg attaatTTaa gaaccctttt gtgcctggct 840
tttcaggaag ccagtagcaa tcaattgggtg ctggcatgaa gcatgaaact atttgccatc 900
tctgagttat gccagtanaa ttggcatgct tctggtttcc atgcatacca ctacctttca 960
tgggtttttat tgtgcacaaa ctttgcagtc ctttagaatg atatacctac gcagggtatat 1020
aatTTgtcac cctgatccaa aaagggkaag awgcmagac catagtgagc ctcttattag 1080
aaagctcttg gcttcagttt ttgacacttc cctgactctt tatattcacg ttatcataag 1140
ctgccaaatt cttgactcta taaattgccc tttaacagct tattaggaat tccaactact 1200
gtattctagc accaactaca gcatattcag agcctctgca attcctaaaa gtacacttaa 1260
accaaataca tgggccagcc tgcactcttt aaaatacatt ttatgccttt acacttcgta 1320
ttaagtTggg tgagaattat gttttaatct acactctatc ttgaattgtc ttacatttta 1380
ttctgcttac cagggttcar gttcttatcc naaaatgaag ttaaattttt ttctcttaga 1440
tagttgcatt ccckgaaagc attaraacag catgatcccc ttggtgttta ttgacattct 1500
catcattgtc tcattgggct ttaggtttta catgcctcat gatgacaaca acaaatgtaa 1560
agaagaagga gttaagagtc cccagcatgt catggctcca acactgaact tctacaccaa 1620
cccctggatg tggTcaaagt gtagtcgaaa atatatcact gagtttttag agtaagactt 1680
gaacattctt ttagcacaaa cttctagtgc ctggcctaca tgtagtgaac taattgtggg 1740
aaagacaata tgaagtcaaa cattcctttt gagttatttt tgttgacatt ccttgagaa 1800
ggcaaaaaaa aaaaaaaaaa aaaactcga 1829

```

<210> 945

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<400> 945

```

aaaaaaaaaa aaatgaaaga aacttgccct tttactttat atattcccat agtcacacac 60
ctagacctct gtttggccag attaccagat atgtatgcaa agagaatttg tagtgaaaac 120
tgtcgagtca tattcaaatc ctttctgtaa tgaaaagctt tttcctaaaa tctgttggaa 180
attgctcatt ggTtaactac ttctgtaaaa gtatttgggt gaaattccag agttttatga 240
ggtgarggat aaaaagrtgg ctcaaggcct actaaagtca acctgcatca ttagtccctt 300
tcagaagaca rgracckggg ttwtgggaaa gattccngtt tkctgratct gctatkagtt 360
tctgctgect cacttgGCCa acaatttt 388

```

<210> 946

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

619

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 946

```

cctcactnaa  nggaacaaaa  gctggnngctc  caccgcggtg  gcggccgctc  tagaactagt  60
ggatcccccg  ggctgcagga  attcggcacg  agcggccgcc  tccatgaagc  ggaaaagcga  120
gcggcggtcg  agctgggccg  ccgcgcccc  ctgctcgcg  cgctgctcgt  cgacctcgcc  180
gggtgtgaag  aagatccgca  gctccacgca  gcaagaccgc  cgccgcccgg  acccccagga  240
cgacgtgtac  ctggacatca  ccgatcgcc  ttgttttgcc  attctctaca  gcagacaaaa  300
gagtgcacat  aatgtacatt  atttcagcat  agataatgaa  cttgaatatg  agaacttcta  360
cgcagatttt  ggaccactca  atctggcaat  ggtttacaga  tattgttgca  agatcaataa  420
gaaattaaag  tccattacaa  tgtaaggaa  gaaaattgtt  cattttactg  gctctgatca  480
gagaaaacaa  gcaaatgctg  ccttccttgt  tggatgctac  atggttatat  atttggggag  540
aaccaccagaa  gaagcatata  gaatattaat  ctttggagag  acatcctata  ttcctttcag  600
agatgctgcc  tatggmangt  gcamtyctac  atwacc  637

```

<210> 947

<211> 753

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<400> 947

```

ccacagtcgc  agccccggcg  ccccgaagcg  ggaaaaaggc  tgggtgccgc  cgtccccag  60
ctgcgcaacc  ctaggaactc  tcggcaaaaa  aaagagcatg  aggaatttga  agactgagag  120
atgagttgtg  tagcaccaac  attttcttct  tgccctgacct  tcatacctga  tgaattaaaa  180
gcataggatg  tttggaagag  tgagataagg  gacacattga  aaacagagag  gcaatctgaa  240
ggctaccttg  acgcatctgc  aaagctccca  gattctgact  ttcacaagac  ttgctttctg  300
tttctgggcc  tcgcctaaac  agactgccag  tcatccgaac  cgtggcagga  tggagatgtt  360
tgtgtaaggt  agactcaagt  ttgcaagact  caagaaggaa  accaccaaac  taatttwact  420
ttcacttaaa  ccagattgaa  accaagactt  gaagaattaa  aaactttgac  attaaccatt  480
gattcactcc  aatgaaataa  ttgtgttata  gccagaatca  tggtgaaatt  ggaacaaggc  540
ttttgatggg  atttttaatt  gagggactta  tattaaattg  gatattttct  ttaatgaaca  600
gcatgtggcc  aaaattctat  tttcattaaa  gtatattaag  catcatgaca  actcatatta  660
aacctgcaac  aaatgattaa  tgacatttag  agacttcaaa  tgtcatgaga  caccttaaat  720
attaagaatc  aaaaagaaca  cctcanagtt  gtg  753

```

<210> 948

620

<211> 912

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (757)

<223> n equals a,t,g, or c

<400> 948

```
gctcgtgccg aattcggcac gaggttagtt gccgaaatat actagttctc tgagggttaa 60
agaagtaaaa taccttttta aagttaaata tcactagaaa aatcagtgtt attacaaggg 120
aagaaatgaa cccagtttaa gaatttgcca tcagtagcag tattaagcag tggttaatgt 180
cttaraagtc agacttcttt ttcaaggctc tcagaaccac acttgatttc tgttttgttg 240
cagctgtaat tgacacacac taggcagctg actccttgaa tatccagtgt gaccataaaa 300
atagtctgtt aataccggat cttaattttt atgttattca ttaagatttt aactatattc 360
agtacgtaat ttggagacaa actagcatca tcaaaactgc ctgtaaataa ggtgtttagt 420
ctttctataa aaacagaata gagcagttac ctaccagtta aaatatctta tatgaagaaa 480
atagaataaa gatccagtca tatatgtaaa taagatgtac tgattgtacg taaatgaaaa 540
atggaccctt taaaaattat ttttacctga agcttgtcat aattttttta aagcaaatat 600
atatatgggtg atggtacttt tcaaagtgtg tattagtggg gatcacctca aacataaacc 660
tctgttgtga atcatttgtg tccttttcaa ctgtctttca gaggaaaggt aaaaaatcat 720
taaacctgaa attcatttgt aaaatcaa atttgtnagc agtaactcaa gctcatgggt 780
ctcaagcaga aaaagggttg ggargactta aaaatggagt ccagggttga catgggagac 840
tgcttaactc ccttggggta ggcattggcc ttgccttcag caaaccagtg ctttcccca 900
tgtcttagtt tc                                     912
```

<210> 949

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

621

<400> 949

```

gcagtgagcc gagatttcac cagtgcactc cagcctgggt gacagagcaa gactccatct 60
caaaaaaaaa ataaataaaa aaaaatgcag ctgcaggagt gaggcgcttg gaggtacctt 120
gacccaaaga gcagggcaga ggggtggcagt ggcacatagg caagtgtctt tgcattgacat 180
cttctcagag cttcacaata atgtcaggga ccacatttaa tgctttttta tctcccatag 240
tgcctggctc acaggaagtg ctcagatatg ttaagtaata aaaagttaat gtgggtgggtg 300
cagtggctca cgcctgtaat cccagcactt tgggaggctg aggtgagtggt attacaaggt 360
caggagtcc agaccagcct ggctaatatg gngaaacctc ggctntacta aaaatnccaa 420
aattactggc atggnggtgc                                     440

```

<210> 950

<211> 1006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<400> 950

```

attttcaaaa ggaaactaat ttatttttct ataaaatatt gcaaaggaat cgaatacatt 60
tttattctat gtaaataata atataatttt cacatttagg aggcaatagc aaatctggga 120
agcagttatt ctaagttgga agagcattat cccaatgcat tgaaaacatt tgatgactat 180
tttttatgtc ttctttattt tgatgattat aataatgttc taactgggtg gccttcggtt 240
ttcactctag tcagtccatc ttgtttacta tgtcaattgt tctccaaaaa gtagaaatgt 300
cattgttttg gggccataka acatttcaga agctttccag tatctatgca gtaacagtcc 360
aaacccctca acataacaca ttacacctg caagtatggc cccaaatntt caagtggctt 420
ctgtcactac tccatagtac atacccttg ttacagctgt ttcacaaata caggttgaat 480
atcccttatt taaaatgttt gggactamaa gtttcagatt tcagatatgt ttggattttg 540
gaatatttgt acatgtataa tgagrtactc ttagagttgg gacccaagtc taaacaaaat 600
tcatttatgt ttcatatata cttatacac ataacctgaa ggtaatttat ttttcccttg 660
ggaacactga atagactata tgttgtgcac ctacattttg actgtgacct atcacatgaa 720
gtcagggtgt gaattttcca tttgtggcat catgtcagta ctcaaaaagt tttggatttt 780
ggattttgaa ttttcagatt agagatgtc agcctaatag caaatgttcc catgttatac 840
acctcaacct cccattccca ttggctggaa catctctgct tatattaaat gtcttttatg 900
tgaaatctgt gttctcatag cttttgtat agttctctac catctcatgg ctcacattgt 960
attgtactta ttgtattmaa tatctggatc atctactgtg aaaaaa 1006

```

<210> 951

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 951

```

aaagaaccaa tgcaagtttg gtttctatcc agaaaaaata caggaacaga ggaaacaaag 60
caggatgatg actgaatctt ggattatggg gtgaagagga gtacagacta ggttccagtt 120
ttctcctaac acgtgccaaag cccaggagca gttcttccct atggatacag attttctttt 180
gtccttgtcc attaccccaa gactttcttc tagatatatc tctcactatc cgttattcaa 240
ccttagctct gctttctatt acttttttagg ctttagtata ttatctaaag tttggctttt 300

```

622

```

gatgtggatg atgtgagctt catgtgtctt aaaatctact acaagcatta cctaacatgg 360
tgatctgcaa gtagtaggca cccaataaat atttgttgaa tttagttaaa tgaaactgaa 420
cagtgtttgg ccatgtgtat atttatatca tgtttaccaaa atctgttttag tgttccacat 480
atatgtatat gtatatttta atgactataa tgtaataaag tttatatcat gttggtgtat 540
atcattatag aaatcatttt ctaaaggagt gaattctaag ttttagggga aaaaatgcaa 600
tttattttca gactcccaaa gtaagaatta acatatcatg ctaagaaaat agtgactatt 660
ttgaagtatg ctacttcctt ttcagaaata tagaatacac gtttctgtta ttaaagtatt 720
tgattactaa ttcaaatcat atggcaatta taattcttct aaaatgctat catttgtaac 780
tgtatccctt gtattaaatc tcattaacca caggcagctg ttacagaaag ctgcattgtt 840
tcacattgag ctgttacatt agttcaggct aaatgttggg mgctccaacc acatccaaga 900
ataaatctgg aaacacactg ctgggatact gctgttagag cccttcttgg ccttgtattc 960
ccagaaatga gctcccttct cttagcttag aagaatgtga ttatatccag gacatcatgt 1020
tcagaaaact tagtttactt tcagcataga atgcattact gttggaataa ttggcctcta 1080
gctcttaaat gtctctgata acttattaat atctatcttt ataaaataga gtgcaactac 1140
ttttgtgtaa aaatgtttgc ctttaaattt agtatttcat atcagcacat cgatatatgt 1200
ataaatgttc catgttaatg tgtaaaagag tctgtaataa attatttttt tcacgtgtct 1260
ctatacagtt tttatttcma taaaaatatt aacattaaaa aa 1302

```

<210> 952

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<400> 952

```

ctgtaacctt ttcacgcgct atctgctaaa aatgttgccg atgtgaagta aacatggatg 60
tagtnacctg acgtgccagg cgaggagtga gtgtgaaagc gragaagsag gaaactgccg 120
cgaccatgaa agackttgcc ctcaaggsaa aagtctctac agcgaccgtc tcccagacat 180
taatgaatcc cgataaagtc tcccaggcca cccgtaatcg ggttgaaaaa gcggcccg 240
aagtgggtta ttaccgcag cctatggggc gcaacgtcaa gcgtaatgaa tcccgcacca 300
ttctggtgat tgtcccgat atctgcgac ccttcttttag cgaaattatt cgcggtatcg 360
aagttacggc ggcaaatac ggatatctgg tgntgattgg cgactgtgcg catcaaaatc 420

```

623

agcaggaaaa aacctttatc gntttgatca tcaccaagca aattgattgg n

471

<210> 953

<211> 918

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (871)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (903)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (916)

<223> n equals a,t,g, or c

<400> 953

```

cggcacgcgt gggcctaactt tcacgcttcc tccccctccc ctctctccctt atcccttcgc 60
tttcgctctt ttccgctcgag gccgaccctt gagttgtgag tctgggggtct ggttggtgaa 120
aaagagccct tgaagctgga agacgggaga ggacaaaagc atgtcttccc ttcttgggtg 180
cattggtttg gatgcagcaa cagctacagt ggagtctgaa gagattgcag agctgcaaca 240
ggcagtgggt gaggaactgg gtatctctat ggaggaactt cggcatttca tcgatgagga 300
actggagaag atggattgtg tacagcaacg caagaagcag ctagcagagt tagagacatg 360
ggtaatacag aaagaatctg aggtggctca cgttgaccaa ctctttgatg atgcatccag 420
ggcagtgact aattgtgagt ctttgggtgaa ggacttctac tccaagctgg gactacaata 480
ccgggacagt agctctgagg acgaatcttc ccggcctaca gaaataattg agattcctga 540
tgaagatgat gatgtcctca gtattgattc aggtgatgct gggagcagaa ctccaaaaga 600
ccagaagctc cgtgaagcta tggctgcctt aagaaagtca gctcaagatg ttcagaagtt 660
catggatgct gtcaacaaga agagcagttc ccaggatctg cataaaggaa ccttgagtca 720
gatgtctgga gaactaagca aagatgggtga cctgatagtc agcatgcgaa ttctgggcaa 780
gaagagaact aagacttggc acaaaggccc cttattgcc a tycagacagt tggaccaagg 840
aagcacgcaa gcgccgtga anagcgccct ncaggcccaa naaaggaagg agaatcattt 900
aangactttt attccnaa 918

```

<210> 954

624

<211> 1683

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1604)

<223> n equals a,t,g, or c

<400> 954

```
cgctnttccc cccacacccc gtgtggccag ggatccccgc atggcccatc ttagaaactc 60
aactatttgg tggatgctaa acacttcact tcaggcaatc ccaaggcatt tgctccaggg 120
tatccgatga gattacagct gttaagcttg ctttccattt cataacttgc tgtgcagcta 180
gttaccaccc ccatgctgaa gagtaaagca aagtgccgtg gttcggcagt ggaatccacc 240
cccagcactc tgctcgcaact ggagcgttca agtccgggtta tgtgagaaca gactaggact 300
ctcttgctgc ctctaattgc atttcactgt caccctcccc agtnttctga tgggtgtgcat 360
gtgaggagaa gatgaggtta ggactgagaa gtgcagaagt tggaaacagt gtaaggctgt 420
tttaaaataa gatgttttgt tttaataata tgctcctggc acaaagctag gagtaaagt 480
gactccaaag ggagttcagt taatctctga aatgcacaaa acctagctat tttctccctc 540
tcatcacagt ctgagtctgg tccattgcta cccaattct ctggggacat aaaaccaggc 600
tggaaaggga ccaggaagtt tgaaatagt acatatcat cactagtccc aagggtctag 660
gaatagttag tttattctgg aaggaactgg gaagcttagt ctaattagt cctggggatg 720
acctatgcaa tcacaccgct tatgaccatc ctagagaggg ccctgagcac cagcttgatc 780
ttagggattt ccaaagtaac ctgctttttg cctggatagg gttaaaatag acctttcttg 840
cctatccttg ccttaacctt tctgcctgag gttggcctga gattgtgagt caacgacttt 900
gctatctttt cctcagtgtt gaactttcat taagaaataa agtcctagct tcttacagag 960
aggggtccaa atggtgaatg ctcatcctgc ctggattcaa ggrattagct cagagrttgg 1020
cccctagctt ttctgccttt gtagggacag caaaagggga aaatttgctg cagaaaattc 1080
caaaagattg ctgtagctct cacagggag tggtaaagat cagctaaacc tgggttgggg 1140
tgctttctgc ccagtgggtc ttggcataag tagattaatc ctgctctttt aagaaaaggc 1200
aacttattca ggcagctctg aaagggggtt ctcaaaaaac tcagtttctt ttttctctt 1260
tttctcccaa ctactgttac tggttataga ggtcttttga ctctaaagac caatgttttg 1320
ccactaactg gactaatatg tatctttctg tgatttcac atagaggtct gttttgtgag 1380
ggtttggggg gcagaaaact ttgattaaat cttaatggga ggctgggtga cctggattat 1440
ctacagttag cagacttaaa tggaacagaa gtttatgtgt ccaaatagat gaatcattaa 1500
acctgagtga cttgacctgt gtggttcctt aatagtatct atatatctag acaaaaatag 1560
attgtgaatg taaatggtga atgaaaagga tggaaataat gttntcatat gttaatccat 1620
gagcttgaat ccagggagga atacctcggt gctttaacca ccttagttat aacacatttc 1680
tta 1683
```

<210> 955

625

<211> 119

<212> DNA

<213> Homo sapiens

<400> 955

acctcctcgc cctgggctgc cccgcctggg tctggggggac ctgaacctcc tcgmccctggg 60
ctgccccgac tgggtctggg ggacctgaat ctccctcacc tgggctgccc cagctgggt 119

<210> 956

<211> 351

<212> DNA

<213> Homo sapiens

<400> 956

aaaactctgt aggctgatta atgaagatgt gaatgagcag gttatgcagg tattaggacc 60
tgaagacctc cagagcatta tctacaaatt sgaagaacac gaggaatttt tcccagcatt 120
tcaggcattt actaatgac tacttgaaat cttagaaatt gatgacytgg atgccattgt 180
acctgcagta aagaaattaa aagtactttc atactgaaaa caaatcaaat cttttttact 240
gtgtaaattg tattcttaac attttgtatt ttgtaggatt gatcttattt tgagacaagg 300
gttgtaaaat gtatttgctc tcagaattca tccccttctt agtattaggt c 351

<210> 957

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<400> 957

aattcggcac gagcttacca aaagtatcta atggcccaat gccttcaaac caagtttttt 60
caattactat attttaagtt atacattcaa gttaaaatat acctaggaca ttctgattat 120
agcctaggct ttagttctat ccagagaaca agaaaaactt ttgaaaaag gtaaggaatc 180
gatcccatac ctgatcagga cccataggca tgccagacat gggcatgggg ttcatgttca 240
tctgtcccat gtgaccactg ctgccattca tgtgcaccat actatacact gcaggattnc 300
cctgggtggg aaacttgctg ctgggggaaag gagtttaagt aaacaaatgg tatattacct 360
ntggagcact tagng 375

<210> 958

626

\<211> 557

<212> DNA

<213> Homo sapiens

<400> 958

```
cagcagacaa gaatgagatt ttgttttctg aattcaacat caactataat aatgagctgc 60
cgatgtatag gaaagggact gtgttgatat ggcagaaggt ggatgaagtg atgacaaaag 120
aaattaagct gccaacagaa atggaaggaa aaaagatggc agtgaccgg accaggacaa 180
agccagtgcc cttgcaactgc gatatcatcg gggatgcttt ctggaaggaa catccagaga 240
ttctagatga agacagctga cccttttgcg cttcagttct ggtgtgctta accatgcaag 300
ccctcccacc tcccagggtc ccttgccctta ggtggctgta gcatccctac caccaggac 360
actggtgcga atgacacaac tcaagttggg aggggaacag ggaaggaagg gatggatggg 420
ggtggtgtat cttactctgt ttaagcagaa caccttgttt gcggtgttgg aacatgggtc 480
ctttggcaga agtgcttttt ttttaatcgc agtactattt ttataaagcm agaactattc 540
catgccctgg gggatga                                     557
```

<210> 959

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 959

```
ggcacaggaa tgacttcaaa ggggtgtgag ccaggcctct tcccacacca gacttcatga 60
accatgcctg gtattgtgca tgtttttgtg agcagccgtg aatagggctg ggggagagag 120
atgttcagcc aagaaagtct aaaatagaaa gggaatgttc agttataaca aaacaaattt 180
ttgtaattag agtgctgggt tgtgctcagc atcattgggg ttaaagtgtg agcagtggct 240
tacacttgta atcccagcac tttggggaaa ctgnggtggg gcggatccct tgagggtccag 300
gagttcgagg ccaccctggg gcaacatggt ggaactccca tcttct 346
```

<210> 960

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

627

<222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (750)
 <223> n equals a,t,g, or c

<400> 960
 gntnaaatcc ctncccaagg tatgtaatca gaatcccatc atgaggcaca cccaaatgag 60
 ggacatttcta caaaataact accttgcaat cttcatagag tgaagattat gaaagtcaag 120
 gaataatgag gaactgttcc agactgaggg aaagaaaata ttgacaagc agatggtatt 180
 cgtgcttctg aactgaattc ttttgctcta ataaaagaca ttttgggcac agttttctga 240
 ttctgatgaw tgkawtgkga wtatgtaaga gaawgtagga aaagkattca ggggtagtgt 300
 gggacagggtc agcaactcac tctgaaatgg ttcaggaaaa tcagttcttt atgctgtatt 360
 ttcaatcctt gtataaattc gtgtttgttt caaagattaa aaaaagarar aaaatggagg 420
 ggaaaaatacc tggtaggcaa atgaacaaaa gacatgaata ggcaattcat ttaaaaatta 480
 aaataggtct taaaatattt aaaaaaattc agcatcactg ataattagag aaatgcaa 540
 taaaactgca atgaaatatt ctcatctgtc atgagaaggt tgtggctgag ttaagagatt 600
 ggcaaatccc caccacacct gcccaaaagc aactgtaaat gccattctgt aaacaaaagg 660
 aatcaaggaa cccttggtga tgtgactgat ttcagactgg ggcagataaa gtacaagctg 720
 actcagaaaa gtgaagttgt gccagaaggn taaggaagtg gctcaaaaaa tgaa 774

<210> 961
 <211> 901
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (774)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (831)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (867)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (888)
 <223> n equals a,t,g, or c

<400> 961
 ggcacgagct tagtaccaaa tcctctgttt gggattgagc gctgctcctg gttaatcatt 60
 cctactacaa aaaaaaataa ctcccagggc tagttaaatt gtaaaccaag gctcagcagt 120

628

```

ctcacaacac atggaccaga ggtgacacac agccatttcc tttgccatgt ggcccagttg 180
ctgctgccat gcctccattt ccacactgga tgcctacggc agtgagattt cactgccggg 240
gtaagagttc agcctggatg attttatagc tctgttccca gcacttctca tcatccttcc 300
agcccagaat cagcgggtcat tctgcatatt cccaccaacc ctctaccccc aaacacttca 360
gtgtacctca ttttaagagt tgcgtatccc tgattctagg acgtttttac ccatagttct 420
tgtctttcca aaatctgaaa ttcttttttt tgcctcagaac tgggtagcca agggttattt 480
tattttttatc tttaaaataa tcaaggcagt cgctagagtt tctccttgtg aatagatcac 540
tctagcattt taatgaaaaa gaaaaaaatc tttctggggg atgttgatc atagtaatgg 600
ctcagtaacc acatattttg tcctttccat gtcactgatt ccttcatatg agactatttg 660
gcttgactac cctgtatatt gtgtagaaat caaagttctt atctgtacat ttctgggtcca 720
atacctgtct tattagttgt ccttccccac taaagtttgc aaaacagaaa atgntactat 780
ttctgggtat ttaatgacaa tgaaagggtt ggggtcatatt tcatagtgc ntaaccgata 840
aggagggggg ctcaagggtt cttttgnggt tcttctaagc tttggtcntg gattttaaga 900
c 901

```

<210> 962

<211> 1452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 962

```

cangnggaa gcttaagacc aacttttgtt tgagtacaca agtgatattt acattttcat 60
atactagtga tatgcctgtt gcatacttgg caaaataaaa ctgagattcc gtctcaaaaa 120
aaaaaagaaa aggaaaaaaa aatagcatta tacctcttcc ttgtctcaac cgccatgaaa 180
attctgaaca ctccaaattc agttgaataa tccaaaacaa aatttataag tataaaataa 240
ttttacttct tatagtaata gtatacttta aaaagcctca ggggtatatta tcttctaaac 300
agctacaatt cagtgcagct acattaacca actatgttct ctagttgaga acaactaggc 360
ctatttctact gctgtgtagc ctcaagtgcct aacatgggtg ccaaataaat attcgtagaa 420
ttacactgaa ttgtaaaaac cattcgtttt tgtttacaat tgccaaaaat ctcaaaaggc 480
cctgtatttta tgtaattctt tgaaattatt attttatttt gatttctcag ttattgactg 540
gctgggtgtg acttagtaca taagtactca atattataaa aacctcaaat aattgacttg 600
attttacaca acatccttcc cttttctaca agttaatttt ttacaaaatc atttgggtta 660
tctcctaaat aggttatatt ttattgcttc tagaaacaat gtttcaaaat atatgtgcat 720
tatcagtaat aatttgtata aatatttccc acaacaattt tcataatttt caaagactaa 780
tttcttgact gaagatattt tgctagggaa gtgaaacttt aaaattttgt agattttaaa 840
aaatattgtt gaatggtgtc atgcaaagga tttatatagt gtgctccac taactgtgta 900
cagatcagga cacatatatt tagacatcta agtctgtagc ttaaattggag gttactcttc 960
catcatctag aattgtttac ttagtaattg ttgtttcttt tattattata gacttactat 1020
cagttttatt ttgccaaagta tgcaacaggy atatcactag tatatgaaaa tgtaaatatc 1080
acttgtgtac tcaaacaaaa gttgggtctta agcttccacc ttgagcagcc ttggaaacct 1140
aacctgcctc ttttagcata atcacatttt ctaaattgatt ttctttgttc ctgaaaaagt 1200

```

629

```

gatttgtatt agttttacat ttgttttttg gaagattata tttgtatatg tatcatcata 1260
aaatattttaa ataaaaagta tcttttagagt gaccctttcc ccatagattt ttatttctct 1320
attatattttt acaaggaata taactcagtt tgttagggag agtgccttaa aggcagggtgt 1380
ttcttggact ttgttattta attagatctg cttgcaataa aaaaagttat cggttaaaaa 1440
aaaaaaaaaa aa                                     1452

```

```

<210> 963
<211> 423
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

```

```

<400> 963
tgaatttttt atttctgatt tcatgttttt aatatccaat taactcctta ttttggtaat 60
gtttcttttt tatagtattc caatcagtc gatttcactt aaaaaaaaaa aacagaaata 120
actccagata ttttaagcaa aaagggattt ggtggaagg gttgactata gtaatgtcag 180
gaaggctggt tgagccaaag agaagaggat gctgccc aaa gatcaggaag ctcccagtc 240
ccacccccac tgctgctctg ctggaagcat agccctgcca ccattgcatt gaactgtacc 300
actgccgctg agcaaagtc ggatccccaa ctctgaccat tgtatcatgc cgggtgggt 360
ctgcaatgtc attttgatgt gtcttcagta tggatttttt ttttttttt tctgagtcaa 420
nan                                             423

```

```

<210> 964
<211> 786
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (610)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (663)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (698)
<223> n equals a,t,g, or c

```

630

<220>
<221> misc feature
<222> (706)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (737)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (740)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (762)
<223> n equals a,t,g, or c

<400> 964
taagctggta cgcctgcagg taccgggtccg gaattcccgg gtcgaccac gcgtccggaa 60
aatgcattca gaatcttcag agtcagggtga aaagctttgg ccatgattgg ccttggcatt 120
ggttgtgtctg gacagcggga ccaggcgccc ccttacctgg ctccccctc ccaggagccc 180
ggtgatgctg cgaaggctgt gaacagggga ggcggcactg tgggggctgc cggcagccgg 240
ggctggggag agacatgtgg acacgtggcc tctatggctc cgcctgcca gatcctccgc 300
tgggcccctcg ccctgggggt gggcctcatg ttcgaggta cgcagcctt ccggtctcaa 360
ggtaggggaa gtctggtggt ggcgggtggg agggagcgaa aaatgtaaga gaccagttgg 420
gtccaacag aaagaggcat cagggggctg ggatgggggt caatggggga aggccctggg 480
gtcaataggtc gggagccttg cagccaactc cctggatttc ggggggtcaag tgaggccagc 540
atcacttgct ccagcagcct aacagccagg acacaggggt ccaataagac cagggccccac 600
cccargcctn tgacccttac ccacagatga rttctgtcca gtctggaaaa gctatgagat 660
cgnctttccc amccgcgtgg accacaacgg ggcaactgntk gccttnttgg caacttcttc 720
ccggaatcag cggccgnggn accggggggc cacaggccaa tnccggcttt ttttaciaaag 780
gggctt 786

<210> 965
<211> 1340
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<400> 965
ggtccantaa aagagaggag gtttggagcg gtggcctgtg gagttgctat ggagctgtat 60
gtgtttgggg gagtccgaag tcgtgaggac gccagggtga gcgagatggg aacttgcaag 120
tccgagttct accatgatga gtttaaaagg tggatctatc ttaacgacca gaatttatgc 180
atccccgcca gttcctcttt tgtttatgga gctgtaccta taggagccag tattttatgtt 240

631

```

attggagatc ttgatacagg taccaattac gactacgtgc gtgagtttaa aagaagcaca 300
ggaacctggc accasastaa accactcctt ccatccgacc ttcgccgtac aggatgtgca 360
gccttacgca ttgcgaattg caagcttttc cgctgcagc ttcagcaagg cttattccgt 420
attcgtgttc attccccctg aggaggaagc agagcagagt gcgagatcct gacccaagag 480
caccataaca tagctccgaa agggagagca gagatggcag ctgaaactca ctctgtgctg 540
ggctttggta tggtaactct ttggtgggtt tatgatgctt acaaacttga gctttactcc 600
ttgtttggga gaacacgtaa ctggtgaaaa actacctggg aggagtgagt tcctccagtt 660
aaatgtggct gtagatgttg gaggctaagg aggctagtaa atatcaaaag gaaaagggag 720
tggaattgc tatcatgtaa aatatcaaaag ttaaaatact aaggtgcatt ttccctgaag 780
ggaactcagt ctgactgctg tattcaaata cgtagctttg gtaacaaaca aaatccgtat 840
atgcaaatac acatatccaa acatgccaaag actgcttttc cactgcactt ggaaggatat 900
attatgccta agcctgcccc acaaattaag gtttgtgcct aaaatgttag attggactgt 960
atgccagtta gtctccattt attcctagta ctctgtccta agaactcttt taaaactata 1020
tcatgatgaa tagaaatgaa gataaaattg ctcttttgta actttatctt agtaatgtaa 1080
agattcagta aattgatgag tcaggttgca gccctcatgt gaactgaaag aagttgctcg 1140
cttctgtgtt gacttagatc aagacacgtc acgcactcct tctggggtag tacctgtgga 1200
gccgggaagg gtctcctgca gtgccattct gccttctcaa tgagcaaaac cattttctaa 1260
gtatgaggat attagtgagt aggagatttt ataaaagaaa gacctgagtc agacaaataa 1320
taaaggctctg ctgtggctaa 1340

```

<210> 966

<211> 884

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (771)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (796)

<223> n equals a,t,g, or c

<400> 966

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aggggtttat aggacagaga ccctgcaccc aacctagagt tgcctttttt aagcaaagca 60
gtttctagtt aatgtancat cttggacttt ggggcgtcat tcttaagctt gttgtgcccg 120
gtaaccatgg tcctcttgct ctgattaacc cttccttcaa tgggcttctt caccagaca 180
ccaaggatag agatggccct gccaaagtgc ggctctcct gttaaacaaa aacattctaa 240
agccattgtt cttgcttcat ggacaagagg cagccagaga gagtgccagg gtgccctggt 300
ctgagctggc atccccatgt cttctgtgtc cgagggcagc atggtttctc gtgcagtgtc 360
cagacacagc ctgccctagt cctaccagct cacagcagca cctgctctcc ttggcagcta 420
tggccatgac aacccagag aagcagcttc agggaccgag tcagattctg ttttgtctac 480
atgcctctgc cgggtgccgg tattgaggca cccaggagc tgttactggc gtggaaatag 540
gtgatgtgtc tacctctgtc gctgcactca cagccacact tgatacacga tgacaccttg 600

```

632

```

cttgtttgga aacatctaaa catctagtag atgacttgca ggctgttggc taccagtttc 660
ctgtctgagg tgtatatgtt aacttcgtga tcagtttgta tgtttgggac tcttgctcta 720
tgtaaagtta aggtggggccg ggtgcagtggt ctcacgcctg taatcctaac nctggggaggc 780
cgaggcgggt ggatcncctg atggtgaaac ctcactctta cttgaaaata caaaaattag 840
ctgagtggtg aaaaaaaaaa aaaaaaaaaa aaaactcgag gggg 884

```

<210> 967

<211> 1632

<212> DNA

<213> Homo sapiens

<400> 967

```

aaattgaaac ttctaataaa aatgatatga ctatagatat attacatgct gatggtgaaa 60
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caaaaactga agatacagtt ctctgcagca gtgatacaga tgaggagtgt ttaatcattk 180
wtacagaatg taaaaataat agtgatggaa agacagctgt tgtgggttct aacttaagtt 240
ccagaccagc tagtccaaat tcttcctcag gacaggcttc tgtaggaaac cagactaata 300
ctgcttgwtg tctgaagag tcatgtgttt taaaaaaacc tatcaaacga gtatataaaa 360
aatttgatcc agttggagag attttaaaaa tgcaggatga gctcttwaag ccaatttcca 420
gaaaagtacc agaattgccc ttaatgaatt tagaaaattc taaacagcct tctgtttctg 480
agcaattgtc tgggtcctca gactcctcta gttggccgaa atctggatgg ccttctgcat 540
ttcagaagcc aaaaggacga ttgccatatg aacttcagga ctatgttgaa gatacatcgg 600
aatcacctagc tcttcaggaa ggaaattttg ttataagtt atttagcctg caagacctgt 660
tgttactcgt acgctgcagt gtccagagga tagagacaag accacgttct aaaaaacgga 720
agawwatyag aagacaattt ccagtttatg tactaccaa agtagagtat caagcttgtt 780
atggagtga agctctgact gaaagtgaac ttgtgcgtt atggactgaa agtttattgc 840
attccaacag ctcattttat gttgggcata tcatgcatc tacttcaaaa ctttttctac 900
tggaagaaat tacctcagaa gaattaaaaa aaaagctttc agcactcaag atttccaatt 960
tatttaacat cctccaacac attctaaaga aactaagtag cttgcaggag ggttcctact 1020
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ttactaggac agcatacaat ttgtataaaa cacattgcgg ccttcctggt gtaccttcca 1140
gtctctcagt tccctgggtc ccattagatc ccagcctgtt attaccatat catatccatc 1200
atggaagaat acctgtgact ttccaccga aatcactgga taccacaaca caacaaaaga 1260
ttggtggaac gagaatgcct acacgcagcc acaggaatcc agtttccatg gaaacaaaaa 1320
gcagttgctt gctgtctcag caagttgaaa ctgaaggagt ggctccacat aaaagaaaaa 1380
taacttgagg actgtaccat ggaaaactaa atttaaaaaa acagttataa cagtgtttta 1440
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tagagtgcct tgaaaaaatg tgttggctat gtgaaggaa atttcaacta aaatggaatg 1560
gtatgctttt cacccttgaa gtttgaggag gatcttgata tgttttaaca ttatcatggc 1620
agggaaatat at 1632

```

<210> 968

<211> 1592

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1581)

<223> n equals a,t,g, or c

633

<220>

<221> misc feature

<222> (1589)

<223> n equals a,t,g, or c

<400> 968

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ttcagccctt caggatttcc ctgctacttg ggttcttgtc ttgaaacttc cttacacttt 120
tactgttttt tttttacttc cctttttctt aatcttcac tctttcctca attttctttc 180
cttatcttcc ctacccttct tattatcttt cttgtttgtc catgtaattt cttctccctg 240
tttaccacct ctgaccttct tgtatttccct ttctgtccct ccctattact ccttcccttt 300
tcttgtccct cagttttaatt atttcaaaca catcacacat aaggcctgtc attcccttga 360
tttctaattt atcttttcaa cctctaataa atttracaca garaatatth ccccatcac 420
tttgctcccc atctactcag atctatcaac ttctctgatg gttatttgaa agtttagtac 480
ttaaaaatgt gtcagattaa aacttgttta gaaacagcca gctagctgga gatgaaaaat 540
atataagagc ttatttgcaa ggtgggttaat acatgtataa atactacaga gttgactgta 600
tataggtagt ttgtagatac attaagctat tctgttctct gcttcatctc ttagattggg 660
ggaacgagaa tgcctacacg cagccacagg aatccagttt ccatggaaac caaaagcagt 720
tgcttgccct ctcagcaagt tgaaactgaa ggagtggctc cacataaaag aaaaataact 780
tgaggactgt accatggaaa actaaattta aaaaamcagt tataacagtg ttaatttag 840
gataagtttg agggaaaaata atcagtaggc aagaggaaca tttttcctgt agtagctaga 900
gtgccttgaa aaaatgtgtt ggctatgtga aggaatattt caactaaaat ggaatgggtat 960
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gccagtctgt tgcgactgac tcaaaaagtt aaatggtgcc actgctgaag atgattatga 1200
gcatcgcaaa ctttgtttct gacccatttt gacagttttt atatactct ttaaaatgat 1260
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gcaaaaaata aaaactccct gcctctgaaa agtcagatta ctgacttctt gtttggaac 1380
catcagtttg tttataaaaa gaaaaaattt ggtggtataa catgtttgat gacagatgcc 1440
tctatctcta gattcaagct gagtgttgaa atacactgct gaaagcaaag agataggtat 1500
gttttccaga aaaaaagtca gtgtcattgc tccagatgac aagggttaatg tggtaaagca 1560
taagcttttt tttttttttg naaggaganc tc 1592
```

<210> 969

<211> 1931

<212> DNA

<213> Homo sapiens

<400> 969

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catactgggt tttgtaccac atcactaaag gcccaaatca ttgaagatac aaaaccgtac 120
atgcaggctg gttgtctggg tagtcaatgg ctgatttgct tcaactgtct agtatgtatg 180
tgcagcctga aactggctcc ttaaaaggaa agccgggtca gtcactctga aaaaatgaca 240
tgtaaaagta aatcgataat tgttttgaga gacgggtacat gttttaaagg ttggccttaa 300
gcttcagtaa cattgtcatt ttgtgacctt ttgttgctac acctgtaccc taacctgaca 360
ggaattaaact actgtttttt tgtggggcag aaagcaaaac ctggtgttgt gacttttatt 420
ctaattggtt ttaggcaagg ttagtgagaa gaaacacaaa ccagatgca tgcattgtgc 480
attattttgt agacaagcta ctttttcttc tgtcccttta acaaatgtgc agcaattacc 540
ctccctttgg ggtctagagt gaaagctaatt ttgtgggtag atgagattgc agaagaatgg 600
atgtccatgg ctgtgaacac tgcacactgc acatccatct ccagtgtcga cactgtgcag 660
```

634

```

ctaccactcc ctggctgcgt gccatgctgt cggggtgcag atttgcacac ataaattcct 720
caggaagagt ttgcatgagc atcacctcgc aatattctgt actgaccaa caagggattt 780
gaacgttttt cagcacaaaa ggataacttc cgagtgggtg tctgtacgca tactagcaaa 840
ggtaatgggtg atctagcaaa caaaattggg ttctgcagtt agaagtgagc aggagcactt 900
gtattatagt atttaaataa tcctgggttaa tctcttttta agccgagtaa cccctccaga 960
ttttgccttt ttattattga ggctggcttt attttcttct actttttttc ccgttttata 1020
gcagttaatt atttttgtga ttattatgca agaagcattg cccttgagtt aaactgttat 1080
tgtttcataa gcagctatta aaataactga gcattgtttt atgaacatac actaatctga 1140
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cctttgacat ctattacagg tttataggac ctttttggtt gtgattactg ttttcaatac 1380
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aagaatatga gaaaggaacc ctggtgtttt ccaagggaaa tcattcctct ctgtcccccac 1560
tgttgattaa ctaaagtctt ggacaccttc cttctccac tggccaagac ccaccttgac 1620
ccaccttgaa cctcttttca gagccgagtg gcatgaatat gtgtactgtt tctgttcttg 1680
ttgatggagt ggctgtggga gaattaaagg aaatgctaatt ttgagcttca ttcatagggg 1740
aacctactat atattgcac cctgctggtt ggaaattatc ttcattctctg gactgcattg 1800
tttagaaaaa tgttaatggc ttacaattct gagaaacttta ttgtgtggct ctgggggttaa 1860
gaattctgtg gtttgaaaaa aaataaatat tttgtattga ttcaaaaaaa aaaaaaaaaa 1920
aaaaaaaaa a

```

<210> 970

<211> 743

<212> DNA

<213> Homo sapiens

<400> 970

```

tctaactgtg gagtggatta aggagatttg caaasgacaa agggakgaat tccttacttt 60
aatctgttat catTTTTcct atgtttccyt ctttgttcag aagcccagat gcattttttat 120
aactcagttt taaaaacttt aaaatagtta ccttgccctt taggatgttc ttatcccacc 180
cataatgaga gttgaaaggg gatggatagc tgctcccat gcccttccca ctttttggaa 240
taggccgtga ggggtgtgagg aagaaggctg tcttttgtac ataaggacaa aattgtttgt 300
tttacataaa ttttgttaca ttttttgc taaatggcttg tatgtaacaa gaagcgagtt 360
gccaaactac ctggtgtact tttgaatttt ctgattgaat tacagactgc gaacaacggc 420
tttcagaatg agggacttcc atcagactct aatgataata gtagcacaaa ttgaaaactt 480
cccaaagct ttcacagaat attttctcat aataaaatcc aagtgaacag ataattagaa 540
gaaacccttt tccttcaggg aaccaagcaa ctctatttta gtactgacat gcattatttt 600
cactgtgaat tcactttttt attgcatggt cagatgtccc tctttgtttt ttttttttgt 660
aacattaact gcaatgatgt tcttcctgga attcatgaaa atataattaa aacacatttt 720
taaacaaaaa aaaaaaaaaa aaa

```

<210> 971

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

635

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 971

```

cctggggaac caaagccac ccctagggga aaaccagggc aaacgggngg accccctagc 60
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ttggtcagag aagttttctg tctttattgt ggtgtgagag cagaggaaaa aagtttggtt 180
tttccgctca gactttgttt taaggaacag gggagaggga agttctgtgg tttttgaagt 240
tcttagatac gtgtgtgtag ctttgtgtgg cattatatat agcattatat tattttctac 300
ccttatctac tcatacagaa attgcacagt aaaaacatca aagtttattc ataaaatgtg 360
gatctattgc agtcactaaa aatgttgcag aacagatttt aatgactgaa agtgttcatg 420
ataatatatt caatgaaaat atggttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa 540
aaaananaaa aaaaaaaaaa anaaaaaa                    567

```

<210> 972

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

636

<222> (343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 972

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agtgagaact aaacgggggaa tacagatagc agagattaaa taggctataa gaaaaaaaaag 60
ggatgataat aagaccatgg tagtacataa aaaattttaa tgatctgggt aaatacattt 120
ttaaaaaactt actaagtgcc cagtgcggtg gctcaggcct gcaatcccag cactttggga 180
ggctgagggtg ggtgggtcac ttgaggccag gagtttgaga acagcctggc caacatggcg 240
aaaccccgtc tctactataa ntacaaaatt taaccaggcg tgggtgggtgg cacctgtagt 300
cccagcttac ttgggagact tgagccatga ggaatcactt gancccagtt ggggtgggagn 360
tttggg                                           366

```

<210> 973

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<400> 973

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gaacaggggg ttttgttttg ttttgaaaga acgtctctgt ctgtngceca ggctggagtg 60
tagtggcatg atctcggtc actgcagcct taacctctg gctcaaaca gccccctgcc 120
tctgcctacc aagtagctga gactacaggc acctaccacc gtgcctgtct aattttttaa 180
attttttata aagatgaggt ctctctttgt tgcccaggct ggtctcaaac tectaacctc 240
aagcaatctg cccacgtcgg gcttccaaag tgctgagatt ataggcgtga ccacccgtgn 300
ccaattgtga tcgtttttcc caaagaatgt atcacatgct aacaaaccat atatttatgt 360
atttcattgt tcatagtaac tacaatttaa aaactaaaag aacaancagg c 411

```

<210> 974

<211> 943

<212> DNA

<213> Homo sapiens

637

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (933)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (937)
 <223> n equals a,t,g, or c

<400> 974
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 gctattttta tattttgcca ttttacagta ctgttttggt ttgaattcat gcataatcatt 120
 gaaaatttct cgttttcatt ttcttagatg acttcttgct tgagacagaa aaatttccta 180
 ctacagcagt gcagtccaga ggtaaatgag tattagaatt atacaatata agtttaaaaa 240
 tctgtatgca taaagaatgc accactcaac ttttttattc ataagctaata atttttttta 300
 agttacatta agattttttc tcttttgcag ctacatttga aagtgataga ataaagagat 360
 tttaatgagt tatcactttt tcagctgata tattcatttt aatggctttt ttgaaagtgc 420
 ctttttcatg aacacacccg agaaatctta aatagacact ttgcaatatt taagaacctta 480
 atgctgttta attttggtac agcttccaca ttgcatgttc acttttagtat ttgcaatttg 540
 atatatattca tgggtggcaaa atatttagctc tgttttggga catttttaaaa tagaactatc 600
 cttgttcgat agcataggaa aatgttctgg tgattgtcag ggtctcctaa tatttatctc 660
 aattctttta taagtctatg gaaattatct aattatttta aaacgtacac acttttcttg 720
 taaatatgtc acatctgagt tcaaaaaaat tactttgaat accttaatat ttgctgcatt 780
 tttttccgta tatataacat gtcttctttc agaatgggaa tatatgtgtg cctcccaaca 840
 tttactgtta aagtgtgtta tcttttatatg tcaaactggg tgaacactgt aatgagaata 900
 aactgcacag agtttaaaaa aaaaaaaaaa aancccnngg ggg 943

<210> 975
 <211> 719
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (703)
 <223> n equals a,t,g, or c

<400> 975
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 cgccgtgtgg taaactgatg aaccccgacc ctgatcaaca tgagatgacc gccgtgtggt 180
 aaactgatga accctgaccc attaggcttt ggctacagaa tgtggaaata agttgtgtta 240
 ctacatgtgt gtaatcctag ggtgcaggac accggccggg aggttccata gagtgcagg 300
 ttctgcagg aactcactct ctagtctctt gtaagctcct agaaggaaga aattatgtcc 360
 tttagactaa taaaattcct ccaaaccaaa tacagcacct actgtgaaga cacaagata 420

638

cttttagaat agtaaaaact ttatccattg agaaattcct taatgaaaca gtatccaaga 480
 agtcatttgc cagcagattt cttagagggtg cgataaagaa gaggacattg ccagtcgtca 540
 cagcagctgc aatagctcct ctctattgtt aaacagtggg atatcttgtg caggttttca 600
 gttgacaatc aatttttaaag attagtttcg gtcccatca atcaattatt tattaacca 660
 tcaataaaaaa tttaaatgct ctgtgaggta caatagctwt twnaaaaaaa aaaaaaaaaa 719

<210> 976

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<400> 976

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 ctgagaaacg taactccaga gcaaaattgg aaccaggatt tcagtattgt aaaggactgt 180
 atctttggta cactggagan ncaaattgatg cccttcgaca ttttaataaa gctcggaaaag 240
 atcgtgactg gggccaaaat gccctttata atatgataga gaatctgttt gaatccagat 300
 aatgaaactg ttggagggtga agtatttgaa aacctggatg gagacctggg taattcaact 360
 gagaagcaag aatctgtgca actggcagta agaacagcag aaaaacttct taaggaaacta 420
 aaacctcaga ctgttcaggg tcacgtacag cttcgcataa tggaaaacta ttggggggggg 480

<210> 977

<211> 1994

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<400> 977

ctctgttctc tggaatgcc a tgatccatcc actgtgcaat atgactctga aaggggtagt 60
 atggtaccag ggggagtgcca atataaatta taacacggat ctgtacaatt gcacattccc 120
 tgcactcatc gaagactggc gtgaaacctt ccaccgtggg tcccaggggc agacggagcg 180
 tttcttccca tttggacttg tccagttatc ttcagatttg tctaagaaga nctcagacga 240
 tggatttccc cagatccggt ggcatcaaac agcagacttc ggctatgtcc ccaacccaaa 300
 gatgcccaat actttcatgg ctgtagctat ggatctctgt gatagagact cgccttttgg 360
 cagcatccac cctcgagata aacagaactg tggccttatc gctgcatttg ggggcccggtg 420
 ctctggctta tgggtgagaak aatttgacct ttgaaggacc actgcctgag aagatagaac 480
 tcttggctca caaggggctg ctcaatctca catattacca gcaaatccag gtgcagaaaa 540

639

```

aggacaacaa gatatttgag atctcctggt gcagtgacca tcgatgcaag tggcttccag 600
cttctatgaa caccgtctcc acccagtccc tgaccctggc gatcgattct tgtcatggca 660
ctgtgggttg tctccgctat gcttggacca crtggccttg tgaatataag cagtgtcccc 720
tataccaccc cagtagtgcc ctgccagccc ctccccttcat tgctttcatt acagaccagg 780
gtcctggaca tcagagcaat gttgctaaat gactgtttca gtatgatcag aacttagata 840
taaggatggg tccttcagat tttagcattt aggagtttca ataataacca ttgcttttaa 900
aggaaattaa tagaaagcct cattgaatgg ctttcagcta gcacatggct gtttctatat 960
tctgatgagc ccaggctyat aggtaacttg aaatgcttgc tttttgttcc ctagttaggtc 1020
taaggggtctg tattggacta attctgaact acagacaaat tggacctcaa tgtcatttat 1080
ttccctcata ttaatgggag tgaaatgtct aatacttttg ccccttttta tccagagttg 1140
tgggatctca ggattggaag agattttaaa ggccacatag gccagctagt gttcatgtgt 1200
tctttataaa atttctccca tccaagtact aaccaggccc gaccctgctt agcttccgag 1260
atcagatgag atcaggcgcg ttcagggtga tatggccgta gacgtcttta caaaattcct 1320
gacagggtgg tactgaatct ctctatgaac tttccattca aaactttcca agtttttcct 1380
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gcaacagagg caaactgttg ttcgagttaa atataaatct caggctcttt aaaggtaaaa 1740
ggtttaagga taatccattt ggaagaagaa aagagtgagg ctgaaagtaa agccacatga 1800
caagcatata aaaaaaaaaatg cagatgatac aaatatgaaa gaggccttca gtgtttgttt 1860
attaagaatc ttaatgcagt ttactgatgg attaaaaaca gctaacattg tctgaaaatt 1920
atgttaccta taagaagttg gaaataaata aaagcataat cactaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaa 1994

```

<210> 978

<211> 611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (279)

<223> n equals a,t,g, or c

<400> 978

```

tcgtcctgcc tctgctcccc aaagtgctgg gcctgagaca ccacaccag cctaaactaa 60
aagccatttt tagtaactcc caccaatgtg gttactgtta caaantnta tggttcctgg 120
gtcatatttg gtatcaraat gtgtatgtat atccttataa atatggaatg tagaactgat 180
aatagttttac ctatcagatt tgcaaaaata aggaaagatt tttagcagct tgaacaaaac 240

```

640

```

atatacatatc ttggataaat aatttagaat ttttaaccna tggctcatat gctcttacia 300
tattctctttt gagggtaaaa catactttat tcttaactt aaagaacctt tgataagccg 360
tgaattatga tctcagtgac tacatttctt tttaggagtt atatgtgggg gaaggaaaga 420
agtagctagc aggggttaaca tggaaagcag gagattatag acaagcatca tttgagcctt 480
tggatactac aaataatctt caaaaatgac aggttttttg gctttttgtt tttcctttcc 540
tttagtgcta gttgcagaat cctatcatat tgtgggttaga tttcaataaa gaatgttta 600
gattaaaaaa a 611

```

<210> 979

<211> 2497

<212> DNA

<213> Homo sapiens

<400> 979

```

gaattcccgg cgctgaggtc ggaacgtytg cgtgtgtgcg ggctgggttt gtggcggtcg 60
ctgctagagc tggagcattt gccggctcagt ataaaagatt aaactctaca gaagaatgca 120
atcaagtgat ggcttttctt ttagaatttg aatatggagg ctacaggaac agatgaagtt 180
gacaagctaa aaaccaaatt tatactctgtc tggaaacaaca tgaaatatag ttgggtgttg 240
aaaacaaaga cgtatttttag tagaaattct cctgtattat tgcttggaat atgttaccat 300
tttaaatatg aagatgaaga taaaacgtta cctgcagagt cgggatgtac aatagaggat 360
cacgtaattg caggaaatgt agaagaattt cgtaaagatt tcatttctag aatatggctg 420
acctacaggg aagaattccc tcaaatagaa ggctcagctt tgacaacaga ctgtgggtgg 480
ggctgcacat tgagaactgg ccagatgctc ttggctcaag gactcactac acactttctt 540
ggtagagctt ggacctggcc tgatgctttg aatattgaaa attcagactc tgaatcatgg 600
acttcccaca ctgtcaaaaa atttactgca tcatttgaag catcactttc aggggaaaga 660
gaattcaaaa cccaacaat ttctctgaag gaaacaattg ggaaatatct tgatgatcat 720
gaaatgcgaa atgaagttaa tcataggaaa atcatctctt gggttggtga tcccccttg 780
gctctttttg gcttacatca actaatagaa tatggaaaga agtctgggaa aaaagcagga 840
gattgggatg gaccagctgt ggttgcacac attttaagaa aagcagttga agaagcaagg 900
catcctgatt tacaaggaat aactatttat gttgcacaag attgtacagt tcctgttaga 960
cttgggtggag aaagaaccaa caccgactac ttagaatttg tgaagggtat ttttagcctg 1020
gaatattgtg tgggtattat tgggtggcaa cctaaacagt catattactt tgctggattt 1080
caagatgaca gtttgattta catggatcct cattactgcc aatcttttgt agatgtcagc 1140
ataaaggatt tccctcttga gacattccac tgcctttctc ccaraaagat gtcttttctg 1200
aaaatggatc ccagctgtac aataggattt tactgtcgaa atgttcagga cttcaaacga 1260
gcttctgaag aaatcaccaa gatgctgaaa ttttcttcta aggagaaata tcccttattt 1320
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tgaagagaaa caagtatatc tgaaatgttt attttcacia atatcttaat tttatatgtt 1560
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tttaatgaat cttgctttct aataaataaa ttgagtgatt ctggttgcat tcctatttcc 1680
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cacctgagcc cattgtttct atggagggtt tgtgatatta accctcccc aaagactggg 1800
atcaccaaat agtttcaaaa ttctcagttt gtactraaga ccagaagatc agagaaggaa 1860
actttaatgc tgtctagcct cctgctatta atgcaatcaa agaatacttt tgcataatgc 1920
ttgataatta aatagtattt gttaactgkg atatgcatac acttatataa gcagaattat 1980
gagttaaagt aatacttrgc aatatgattt tataatggct cctcattatg cttgctgttg 2040
aaccttttat gaggagtga tataaagtat tgggtttccc tcacaaattt aaagattatg 2100
ttattaatac tattataact gcatcaatca agtcagataa aggcaactat aaaatagtag 2160
tagtgtttgt ttcctatctc aagggcgaaa ttttatggga actcaattta ttatgcagtt 2220

```


641

```

ttaaagttta aaataccaag aaagatgtca ctagattctc ttctatgtga tttttgtttt 2280
ttatataaag cagtgtagtgt gtgttttagaa gctgaggcca cctgtaaggc aaatctgcct 2340
taagtgtatt atgtgttact taaaggcaaa tttgtgatct aaaagtacaa gagtgtattt 2400
tgagctagga ttataaaata cataataaag atgtgagaag ataaaaaaaa aaaaaaaagg 2460
aattcgatat caagctttatc gataccgtcg acctcga 2497

```

```

<210> 980
<211> 652
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

```

```

<400> 980
ggaaggaggt ttgttgttnc atcaatgttt gtgaaatgat ttccatacat aaaaaatgta 60
atttacctga actttgtctt aagactctta cattggatta taggataaca gataaataaa 120
ctgtatagat acattcagta tcatacaaca ttttggaatg tgtatgcttt caggcttcca 180
agataattaa attactgtca tgatacattt catgcatttt ttatgacttc agtataaaac 240
attcaggtgt gttagccttc cctgggaagg gtaaaacttg atgtgctttg gtaaagtact 300
taaattccaa tgtyccctat agtgcttgca ttcattttgt gaaaagtttt gttgtattgt 360
tagaacaatt ttcaaaggct gattttatgc cttatctgat agaaatatag aatagatagt 420
tctttaattg cttacttttt aaaagtaata taatatTTaa gttgcatttt tattaatagt 480
aagattaaca ttttaagtctg catTTcttta aatgtTTtaa atgtTTtag cattcaatgt 540
gtagttggwt ttacttgact aaaaattagc cctTTaacgt ttatatttgk tgkatttata 600
tttaataaag gcatctaatac ttwartaaaa aaaaaaggcg gccgtctaga gt 652

```

```

<210> 981
<211> 323
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

```

```

<400> 981
ggagatatct tctaaaagtg aactggatga attgcaggaa gaggtattat ggcctgtcag 60
cattccctgt gccctcmaaa ccttaggcct agaatgcgga gctgccaca taacattcac 120
ccttttgaac agatggagtc aggcacacta acacagcctt ctgtcctcaa taacacagcc 180
attattgcc a ttgctcagt cgtcaatgta aaccctcaga gtcagctgaa ctatttttagg 240
ccaaacatac tgTTTTtgta aagtattttt cattaataaa tctataagac agttctattt 300
aaaaaaaaana aaaaaaaaaaa aaa 323

```

```

<210> 982
<211> 403
<212> DNA
<213> Homo sapiens

```

642

<220>
 <221> misc feature
 <222> (376)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (386)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<400> 982
 tacaaggctt tggccgacca agtgtgtacc atgctgctat tgctmkcttc cttgaattct 60
 ttgcgtgggg cctkttgaca actccaatgt tgactgttct acatgaaaca ttttctcaac 120
 acacattcct catgaatggc ctcaattcaag gtgtaaaggc cctgctctct tttttgagt 180
 cccactcat tggcgccctg tctgatgtgt gggggaggaa gccctttctc ctcggsactg 240
 tattctttam ctgsttccca atcccactga tgaggatcag cccatgtttt ttaaaaaaga 300
 aaacacatca gtggacgtga atgcaatgat gtcttatgaa tgctcacaca gaagcttcca 360
 ttcgtgagga atgcanggaa aagcanaaga tggantaaga agt 403

<210> 983
 <211> 768
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (40)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (676)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (707)
 <223> n equals a,t,g, or c

<400> 983

643

```

ccaggcccta taanccccggc accttgggga ggctgaggcn ggaagcacca cggagcccca 60
ggagttgggg acccggtgg gccacatagc magaccctgt ctatTTTTTT aaaaaagtaa 120
aaaatagaaa ttatctcact acttaaatecc cattTTTTTt acttcatatg aaagaacata 180
ttgatagtat attctatatt atttcataga tctgtctgaa agagattggg aacaaaaata 240
tctaattgag atattcttta atTTTTTtaca tagcagcttt atTTTTTtta ttctgtagta 300
tcagcgaaat cagtcagtgt tataccttga atataaatat caggaatcat gcaattattt 360
ctactatgta tttagtagta tcttatattt gtataacatt attacatttt gcaaattagt 420
atcacaactg ctaagtagat gtttctgagt attagaaaaa tcagtgttat tacctgcagg 480
atattaaaaa acatttgaaa aagagaaaaa gaaaaatcag tgtttagaaa tgttgatagt 540
tattgaatct ttgaattgaa ttttaaaaaa ccattctagt aatcagagta tactTTTTTt 600
atagaacaag gtggcagggtg gggagccctt tacccttctg gtgaagttaa accataggaa 660
gtttacaatt tgsctnttca caaacmttag cagtccsggg catggtnggc tkragcctgt 720
gratycccrgr catgttgggg aggcccgagt tggggagggt tgcctgag 768

```

<210> 984

<211> 134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<400> 984

```

cctgatatac aaatacaact atacaaaatt acaaaacata gtttgkatga aaaccaaaaa 60
tttagtcctt aacatttgac ttgcactggt gccattgcac ttcattgcagc ttataggcac 120
ctttccaggg naag 134

```

<210> 985

<211> 1134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1127)

<223> n equals a,t,g, or c

<400> 985

```

gtcggacaaa gccctcgct cggacccttg ccagaactca attaatggat gcctcgaagt 60
tgacgtacat atatattcag aaatgttttg ccacctgaga cctatgagga ggttatgtct 120
agagaagata tttccacact ggtttccctt ttcaagagct ttatcgggag ctgaagcagt 180
caatgccttg aggcctttct attttgcagt acatccagat ttctttggac agcaccctgt 240
agaaagggat gatacatgga agagttttca atgccttagt gatTTTTtct tatgatgcat 300
gctgctggac cactccctta caacatcagt taatgtgtgc tccaggaata caaactgata 360

```

644

```

tgaaaaatga cttatggtag atgtagttaa gacagtcaat atattttaac attagaaaat 420
acagtcagtc cttcatatcc atgggtttta catccatgga ttcaaccaac ctcagactga 480
aaatattagg ggaaaaaaat acatctgtac tacacatgaa caaacttctc tttcttgtca 540
ttattccctg aacaacacag gataacaact acttacatag cacttacatt atattagata 600
ttataagtaa tctagaaatg acttaaagta tatgggagga tacacatagg ttatttgcaa 660
atactacact attttatatg agagacttga gcattcgagc atttcgggtat ccacgggagg 720
tcctggaacc aatcccctat ggataccaag ggactgctat gtattacaaa gccacatgct 780
ttggaattac ttcagtgttc cttctatttt cattaacact gatattctagt ttaatatgaa 840
aaggaacttg aaatccttgaa aattagaaca tcgttatttt tttctacttg caatggaaaa 900
tctattttgc ttttttgctt ctaggaaaat attckgatta tgatatgtga tatgttggct 960
actcaaagtc agaacttttc aaagtaatca gtaaattgra tcaacagaaa aatattcatt 1020
aactcgggga tgcawtaata aagtttttaa attcaaaatg tatagaaaaa tcaagcttag 1080
taatacttta atattattct accaatgtat ttttttttan gttaaangac ttcc 1134

```

<210> 986

<211> 747

<212> DNA

<213> Homo sapiens

<400> 986

```

ataaatatatt gtagcgagtg tgtagaaccc mtctmagrat ggcaattttt gaactagttt 60
ctaaacmaag ggrattgtat cttcamcaga aaatattatg tgagctttct gggcatatkg 120
atctttttgt agatgtgaat aagcatctct ttgatggaga agtgtgtgcc atcaatcact 180
ttgtcaagtt gctaaaggat ataataatct gttctcttaa tatcagagct aaaaatggtg 240
cacagaatcc tttaaaacat cattcagaga gaactgatat gaaaacttta tcaaggaaac 300
actggtcatc tgtacaggat tataaatgtt caagttttgc taataccagt agtaaattca 360
ggcatttgc aagtaacgat ggatatccat tcaaatagaga gacctaaaat atattaacat 420
tttaattaag aatacttgat caacattttt tgaagttaa ttaccatat tttataaatt 480
gcgacttctg cacagtgagc aagtttgcaa ttctgactta ttaaaatttc aaattctgca 540
tatcacaaaa tctccttata cttttgggat ggcttgagc atttatgagt tttccaaaat 600
atagaaagca gtaggtcagt aggagcaaac tagccaacag gtactgtctt tgaatttact 660
actgtaagac taagcagtg tactggacac agttttaact tgtkcaatct gcttcaaaaa 720
caagaaaaac aacaactatg agttatc 747

```

<210> 987

<211> 610

<212> DNA

<213> Homo sapiens

<400> 987

```

ggcacgaggg aaatctagac ctccaagtg atgcagcaga gtctctcca tcttgaaaca 60
aacaaaacat taggtcctg ttgtatcttg gtttagtaac aggcccttaa ttaacttatt 120
tgtacatgag tcttcagag aacactgttt tatattaact ttcagttgaa atctttcaga 180
tattttgaat ctctgaacaa ccattgtcag ttgtgaatga tggtaaat tttggcatca 240
agtctcataa ccccaactga tagaactgtt gcttatctgt cttccttaag tatttttttag 300
ggttttgttt ttttttttgt ttgtttgttt gtttgccttc acttttccc caggctctgt 360
gagctgtatg agattcattc atacttcatt tattcattca actaatattt gttgaacact 420
tacatgtacc agacattatt aagtgtctgg tatatggtaa tgaacagaat agacaaggcc 480
cctgcccttt taggggagac agatgagaag taaattmcgg gttatgagaa atgttatgaa 540
ggaaaggmca acaacagaca tgtcttagtc tagggtagat ggctttatag gaaagtaaca 600
ttctctatct 610

```

645

<210> 988
<211> 394
<212> DNA
<213> Homo sapiens

<400> 988
ttgaaaattg atacaaacag aatcaggaca gaaaatgggt ccattttgcc cagtgttgta 60
ccacaagaac acaacacctt gccagtatct caggcacctt ccaaaccaaa tctgacaagt 120
gaacatactt catatggctt aattttaaca aaaccatacg tcagaccatt gcctcccagt 180
taccttgatg aacggatatct taktatgcca aaacgcagaa aatttctgac tgatagagta 240
katgcctgtt ctgatcaaga taacgtgtat aaaaaatcag tgaaaagatt aagatgtggc 300
aaatgcctga ccacctactg taatgcagra gcacttgagg ctcatcttgc aaaaagaaa 360
tgtcagacac tctttgggat ttgattcaga tgat 394

<210> 989
<211> 1481
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1481)
<223> n equals a,t,g, or c

<400> 989
cgccgcccgt gcctttcctc ttctcctcyc tctccttgg catccgcctc ttcttctcctc 60
tgcgtcctcc cccgtgcct ccgtgctcc cgacgcggag cccggagccc gcgccgagcc 120
cctggcctcg cggtgccatg ctgccccggc ggcggcgctg aaggatggcg acgccgctgc 180
ctccgcctc cccgcggcac ctgcggtgc tgcggctgct gctctccggc ctgctcctcg 240
gcgccgccct gcgtggagcc gccgccggcc acccggatgt agccgcctgt cccgggagcc 300
tggactgtgc cctgaagagg cgggcaaggt gtctccttgg tgcacatgcc tgtgggccct 360
gccttcagcc cttccaggag gaccagcaag ggctctgtgt gcccaggatg cgcgggcctc 420
cangsggggg ccggccccag cccagactgg aagatgagat tgacttcttg gcccaggagc 480
ttgccccgaa ggagtctgga cactcaactc cgccccctacc caaggaccga cagcggctcc 540
cggagcctgc caccctgggc ttctcggcag ggggcagggg ctggakctgg gcctccccctc 600
cactccagga acccccacgc ccacgcccc aacctccctg ggctccccctg tgtcatccga 660
cccgggtgcac atgtcgcccc tggagccccg gggaggggcaa ggcgacggcc tcgcccttgt 720
gtgatacctg gcgttctgtg tggccgggtgc agccgcctc tccgtagcct ccctctgctg 780
gtgcaggctg cagcgtgaga tccgcctgac tcagaaggcc gactacgcca ctgcgaaggc 840
ccctggctca cctgcagctc cccggatctc gcctggggac cagcggcttg cacagagcgc 900

646

```

ggagatgtac cactaccagc accaacggca acagatgctg tgcctggagc ggcataaaga 960
gccaccaag gagctggaca cggcctcctc ggatgaggag aatgaggacg gagacttcac 1020
ggtgtacgag tgcccgggcc tggccccgac cggggaaatg gaggtgcgca accctctgtt 1080
cgaccacgcc gcaactgtccg cggccctgcc ggccccccagc tcaccgcctg cactgccatg 1140
acctggagggc agacagacgc ccacctgctc cccgacctcg aggcccccg ggagggggcag 1200
ggcctggagc ttcccactaa aaacatgttt tgatgctgtg tgcttttggc tgggectyng 1260
gctccaggcc ctggggacccc ttgccaggga gacccccgaa cctttgtgcc aggacacctc 1320
ctggtccccct gcacctctcc tgttyggttt agacccccaa actggagggg gcatggagaa 1380
ccgtagagcg caggaacggg tgggtaattc tagagacaaa agccaattaa agtccatttc 1440
agacctgaaa aaaaaaaraa aaaaaaaaaam aagggggggg n 1481

```

<210> 990

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 990

```

ccacgcgtcc gcggaacgct ggtcnctgan cgttctgtgt ggccggtgca gccgccctct 60
ccgtagcctc cctctgctgg tgcaggctgc agcgtgagat ccgcctgact cagaaggccg 120
actacgccac tgcgaaggcc cctggctcac ctgcagctcc ccggatctcg cctgggggacc 180
agcggctggc acagagcgcg gagatgtacc actaccagca ccaacggcaa cagatgctgt 240
gcctggagcg gnctgagggt ggcygastgc ccacttccag actgggcccac tggcacctcg 300
agggcatggg gaggacccag cgatcccccc ccaccaggc ataaagagcc acccaaggag 360
ctggacacgg ctccctcggt gaggagaatg aggacggaga cttcacgggtg tacga 415

```

<210> 991

<211> 1280

<212> DNA

<213> Homo sapiens

<400> 991

```

agcaccatct ggagtcttcc tgtagtggca aaaaagaaca gtgttgaaat tggaaaggac 60
tttgtgttat ttaggttggt agaattagcc ttaccaataa taagagccct gagcccagaa 120
aaaaggactg tatagttaa agggaggatt gaaagggagg taaaaaatca gattagacca 180
gttcttgccc tatgataagt tccaaaaata ccatttatct actatttgaa aaaagaagag 240
gatatccctt cctacagtaa agggatatgt agctacatga agttgtaaga aaagcttcca 300

```

647

```

gtagagcttc ttatattaaa gaagttgatg gatatttttg aatttctggt ttgcctgaat 360
ccacctgcag ttaccccgat ccgtttgcaa gaaccagatc gtacttgaaa ctatagtggc 420
cacactctgc cttcctgagt cccttccagt catgtgtgca tcatgtctct ttgccaaagg 480
aggggagaaa ggaactttta aactgcagtt ttaacttttt ctaagctggt tcttgatggg 540
agaggttctg tgcaaaacta ccacattctg tccccaaaat gtggaatgca tccaaatagg 600
agtcttctgc ctcttaactt aaaagaacat aggaattttg tttttgggtt ctttatcatg 660
ctacagagag tgaatacact ggaattcaga caccgactct gagctgctag gaacctcatt 720
tgtccatgtg caaacgctgt attccaaggc ctgtgaatgg cagcctgagg aagttttgca 780
tgcaggctgt gttttcgagc aggactaaca actgggaaat aagcaaaaaa ctgcatcgat 840
ccccagcctg gtgttggtct tccctatact tcacactgaa ctcaggatgg gaagaaaaag 900
gaaacaagct ttgggttttt ccattctcaa agtattgtgg cacctcaaca tttcagtgtt 960
ttgcttttta aaaaatgccc tattgttaagt tgttggttta tactgtataa gtaacactag 1020
tagctgtttt gaataacata ggtgctcttc ctcattctcat ctcctacacc gtggtgagca 1080
tacagagtgt cctgatttgt gttaagtgcac tgagaagatg ttaattactt ttgaaaaagg 1140
atcatggttt ttgctctact ttataatcaa gacaagtgtt tattaataa ctgttttgga 1200
atgttggctg taatgtaaca gcaattttta taataaaagg cattcatctt taaaaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa

```

<210> 992

<211> 1057

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (989)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (994)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1012)

<223> n equals a,t,g, or c

<400> 992

```

gctttatgac aaagaatata attgggagga tgaagtgtct taaaaattgt agagaccagc 60
tacttggaat gtttttccat ccctgtattc atggcttgac tttgtgactg ctctacactg 120
catgtctgac attgcagagt gagctatggt gaggtaaact ggttggttgt cattattttg 180
caatcagcct ggtctctccc atgaagatgt cgtgtgcata agcacaatca tcaactgatta 240
gaagatcaca gcagaatacc cttggattag agagaagttc gtaccttgca tttctctgaa 300
ttctagtctc tcataagcac tgctttgctg gatgattttc actgctttgt gttaatgact 360
ttgagcgatc tctcacatga tggggttctt tagtacatgg taacagccat gtcattcttac 420
acacctagca ttgtgaatgc tgtagtgcac tcctttatag gcaccttaca gctcaaaaact 480
tttgtttcat ttcattgcctt acttatcaaa aaggcaggaa agtaggtatg atctctaaag 540
taaaaaaaaa aaaaaaaaaa aaaacttttt atagaaaagct cataaataat catgtcattt 600
tgcaattttg ttaccaaaat ttcccccaag agttttcaaa tattagttct gcaatgtggc 660
tatgaaatat gcactgaaat atacctttta atttgagaac cagtgggttag aataagctgt 720

```

648

gatataaagt attttcagtg tactttttaa ggaactataa ggccctccag cataaacgct 780
aaaagaatag atggtagcac aggccatgag ggctggggga gagaagcaga gtgaacctta 840
gaaagatggc tcagctatct ggagcactgg atattttact gaagttatct actgaggcac 900
catcactgtt ttgactgtac agtatagttt ttcataaatt tcatcacatt tactttgttc 960
agaatctggg cttgaatctt tgagttggnc aaangcctat ggtttctttt anaaagtctt 1020
atcttgagct aatgctacag tttaaataaa atgtatg 1057

<210> 993

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1043)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1058)

<223> n equals a,t,g, or c

<400> 993

cactcagctc tgggtggcct gagcgtgggg accctcagct ccctgacact gccctgtctc 60
cacaggccca taacgacctg tgcgcacgta tkaggcaaag ctgctggcct tcgggatccc 120
tctggacaac gtgggcttca agcccttggg aacagctgtg atcggacaga cgctgggcca 180
gggccccgcg ggactggtgg gcaccccgac gtactgtccc ccctgggggg ccacagccca 240
gagaaccagc ctaggaacac tcgggatgac accccttata acaccaagga cagcaagttt 300
tttagatctt atcatcagca aatgaaagct tttcacatgt tcttgccatc ctctttcctg 360
gctctgtgga ggagaaccac ctgcaggact ctcacccatg gtgtccctgt cgctcccttc 420
cctgggtgcc gcacgtccag cctgtgtcca ggcctactcc ctggtctcac ctccgaccac 480
agtcggcggc accttctcag agtgcgccgc ctcacctggg ggttggggca gtgcgcgtg 540
tgctgcctgt cttcgcgcca ctgttgtccc accgaatgga cagctttgca ggtgctggca 600
ctaacttcat tgacacctga gtcacagctg cccagtggga ttctccaggg ggccgggact 660
tccctaggaa gtggtgagcc aatgctccct gatgagcaca aagcccgtc tgttgagggc 720
tgggtgggtg cagccagcgt gcgggaaagg gcaggcagcc tcccgtgcc agtcttcgct 780
ctaactccct cggtaggtga tgtaggacca ggggcacgtg gaacttctgg gccttgctgg 840
tgatgggtta aacaacctga gatggagagg ccaggagaga gtataagggg atagcagcaa 900
accacctatc tggccccaac acacctgaga gaattcagca gccagactg agggctctgg 960
atggggtgaa ccttcgcgac cagagggaca ctccacagaa gccacagccc agtaagtcag 1020
gcgcttctgc ggcggctcca gtntgggggt aggcagtnag gttaggccca gagagctgga 1080
gttggtcag atgaa 1095

<210> 994

<211> 378

<212> DNA

<213> Homo sapiens

<400> 994

ggcagcagct ggtctcgaac tcttgacctc aggtgattca tccatctcag cctcccaaag 60
tgctgggatt acaggcgtga gcactgcgct gggccaggta catttggtga tgcagtcttc 120

649

```

tttttaaata tttttaaaaa tattatttta aaaaatattt tgtagagaca agctttcact 180
atgtttccca ggctggtctc gaacttcttg cctcaagcga ttcttttgcc tcagcctcca 240
aaactactgg gattacagca tgagccatca tgcccagcta tacagccttc taatttacta 300
aataacgttr atgtgcttga tcatgttccc tggaaaacag accctgagaa ggagatttgc 360
atgcaggaat atttattc                                     378

```

<210> 995
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (418)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (433)
 <223> n equals a,t,g, or c

```

<400> 995
tggaaactccg ggacatccct ctgctgtcccc accctcccga cccccaagct cctcaacgcc 60
gaagcgcccc cgaactgccg gaaggaatcc taaaaggagg cagtcttccc caggaagacc 120
caccaacctg gtctgaggaa gaagatgggg cctccgagcg agggaaatgtg gtggtggaaa 180
cactccacag ggccccgctt cggggccagc ttccctcctc cccaacccat gctgactctg 240
ccgggggaaaag cccctgggag tcctcagggg aggaggaaga agaggggcct ctgttctctga 300
aagctggcca cacatccctg cgcccaatgc gggctgagga catgctcaga gagatccggg 360
aggagctggc cagccaaagg attgaggggg ccgangagcc ccgggacagc agggcacnga 420
agctgaatcg ggnccagctg                                     440

```

<210> 996
 <211> 222
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (222)
 <223> n equals a,t,g, or c

```

<400> 996
gtgggttgat accccttcga attacccta aaggacaaaa cggacccacg cggggggccg 60
ctctagamta gtggatcccc gggctgcaga attcggcaca gccagattgg gttccctttg 120
caaaacatcc cccttcttg agatgatgat gccatcgaag cccggggccag ggcctgacct 180
gcaggcacac acctggccag tggctctgag gtccccggga cn                                     222

```

650

<210> 997
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (769)
<223> n equals a,t,g, or c

<400> 997
gtgcagcatc aacgggaccc tgtaccagcc cggcgccgtg gtctcctcga gcctgtgcga 60
aacctgcagg tgtgagctgc cgggtggccc cccatcggac gcgtttgtgg tcagctgtga 120
gaccagatc tgcaacacac actgccctgt gggcttcgag taccaggagc agagcgggca 180
gtgctgtggc acctgtgtgc aggtcgcctg tgtcaccaac accagcaaga gccccgccc 240
cctcttctac cctggcgaga cctggtcaga cgcagggaac cactgtgtga cccaccagt 300
tgagaagcac caggatgggc tcgtgggtgg caccacgaag aaggcgtgcc ccccgctcar 360
ctgttctctg gacgaggccc gcatgagcaa ggacggctgc tgccgcttct gcccgcygcc 420
ccsgcccccg taccagaacc agtcgacctg tgctgtgtac cataggagcc tgatcatcca 480
gcagcagggc tgcagctcct cggagcccgt gcgcctggct tactgccggg ggaactgtgg 540
ggacagctct tccatgtact cgctcgaggg caacacggtg gagcacaggt gccagtgtg 600
ccaggagctg cggacctcgc tgaggaatgt gacctgcac tgcaccgacg gctccagccg 660
ggccttcagc tacaccgagg tggaagagtg cggtgcacg ggccggcgst gccctgcgcc 720
gggcgacacc cagcactcgg aggaggcgga acccgagccc agccaggang ca 772

<210> 998
<211> 552
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (548)
<223> n equals a,t,g, or c

<400> 998
ggatgttgga aactggctgt agagccgcag tggttcctga tattaaagaa atgttgttta 60
aagctgtttt tcttacaccc tatgtgcctt tgaaatttta aaagcattca ctttacacat 120
ctgttttgcc tttttacaaa acttttttta aagagagccc tctgccacca aaatatgctt 180
gacctcatca tctgagatc actgctatca aaatatgttg tgtatatttt ttccctagct 240

651

aatttgtgtg tgtatataca ttctatataa ttgttttatt gtgtacaatt tgtgtaacta 300
ttatctgctt taaagggtta acagtacctt tttctgtcat taaatagtgt gcaaaagcat 360
gtgtagtaac tgcactatat gactgtctct ggtccagagc ataaaatttct tcaactggtct 420
cctgtacang ggtctgcaaa cttttaagtt ggctagccta atacatattt ttagactttg 480
ctggtgatat ggtctcctgt cctaactacn ggaccctggt ttttttttaa gaacaaaaaa 540
cgccgcangc tt 552

<210> 999
<211> 681
<212> DNA
<213> Homo sapiens

<400> 999
aattcggcag aggcagtgga ggcgaacttg gtgcgggttg ccgaggtctg gctggatgag 60
tataaggagc tgttctatgg ccatggagac cacctcatcg accaagggct agatgttggc 120
aacctcaccc agcaaagggg gctgcgaaag aaactgaagt gcaaaaagttt caaatgggtac 180
ttggagaatg tctttcctga ctttaagggt cccattgtga gagctagtgg tgtgcttatt 240
aatgtggctt tgggtaaatg catttccatt gaaaacacta cagtcattct ggaagactgc 300
gatgggagca aagagcttca acaattttaat tacacctggt taagacttat taaatgtgga 360
gaatggtgta tagcccccct ccctgataaa ggagccgtaa ggctgcaccc ttgtgataac 420
agaaacaaaag ggctaaaatg gctgcataaa tcaacatcag tctttcatcc agaactggtg 480
aatcacattg tttttgaaaa caatcagcaa ttattatgct tggaaggaaa tttttctcaa 540
aagatcctga aagtagctgc ctgtgaccca gtgaagccat atcaaaaagt gaaatttgaa 600
aaatattatg aagcctgaag tgtaactgat gtttttatat agtaaaccca ttaaatactg 660
tgaaaataaa aaaaaaaaaa a 681

<210> 1000
<211> 689
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (639)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (672)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (686)
<223> n equals a,t,g, or c

652

<400> 1000

```
gcgtggggcc gggcggtgcg gtcgcgggct ggggcagtgc agtgagtagc ggtcttgggg 60
tgtgcgatct cgctgagcct cctcacacgg ttcgtcgtct cgggttcgag cccagtggct 120
tagccactcg ccatggactc ccagaaagaa gctctacaga ggatcatttc aactctggca 180
aataaaaaatg atgaaattca gaactttatt gatacactac atcatacact aaaaggagtt 240
caggaaaatt cgtccaacat actctcagag ttagatgaag aatttgatag ttataactct 300
atactggatg aagtaaaaga aagtatgatt aactgtatca agcaggaaca agctcgtaaa 360
tccaagagt tacagagtca gattagtcaa tgtaataatg ccctggagaa ctctgaagaa 420
ctattagaat ttgcaacaag gtcattagat ataaaggaac ctgaagaatt ttcaaaggct 480
gccagacaga tcaaggatag agtcacaatg gcttcagcct ttcgcctttc ttgaaacca 540
aaggtcagt acaacatgac tcattttaatg gtggatttct cacaggaaag acagatgctg 600
caaactttga agttttttgc cagtccecaa arctccaana tagatccagt tanaattggt 660
tgggtgggca anataacttc ctgttncaa 689
```

<210> 1001

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<400> 1001

```
gatgattggt aggatatttt aacaatgaag tattttttaa ttaaggtagt tattttctta 60
ggcataatgc tattgcacac ttagtaaaact acagtatagt ataaacgcaa cttacatgca 120
ctgggaaact gaaaaaatta tgtgacttgc tttattgaga tactcacttt attgtgggtg 180
cctgaaacca aaccgcgagt acctgtgagc atgcctatat ttgatacaat aggaactata 240
ttgcaggtag taaaaaatga tgaatagtgt tagttcaaag cgatagatga tttgtatgtc 300
caaattaaag aaaagcatgt atgggaaaaa gattgtcatt tttatgtaaa trataaagt 360
ctttctgaat tgtatttttaa gaaaagaaga ttttataagt ccaaagaatc acttaataca 420
atgaataaag ggtaataatt taccactttt ggattacctt twatttaaga cataaatttt 480
tcaactcata agctwtttaa aawcttttca cttaaraaac ccggtggaaa atttggnnta 540
agg 543
```

<210> 1002

<211> 469

<212> DNA

<213> Homo sapiens

<400> 1002

```
aacctttcca cactataaat gatatgacta ctgtttgggg tttctggggc cccatccgtg 60
tacgtatgtg gcatttccag gtatgactga gtgtgagaga catgtcagag gctcttcagt 120
gatttcttgc tattgaccga tgcttcactg tgccaaaaga gaaaaaaaaat gttgggtttt 180
gtaattaaat tatttatata tttttgaaac ccgaattgaa aatgtttgcag gcaacgggct 240
acagctttat tagtggttct ctaactgtgg tctccttggg ccaagcaatt tctttaaagg 300
aaaagttgat tatgtatgtg ggggtgccagg accactgcct tgaaagcaag tgtgattttt 360
atttttaata ttattttatt tgtgtctgtg tacatattca tgtataaatt ttatgaaacc 420
caagcatagt gcttattttt taataaaaca actgacttaa aaaaaaaaaa 469
```

653

<210> 1003
 <211> 543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (90)
 <223> n equals a,t,g, or c

<400> 1003
 ccgggaaaac nttcaaawgt awscctaaag caactggaag graaaatgaa gcccamtgna 60
 gtgagtga aaactkgaa ggaaagtgg aarattccag agttccawtt cctatcctag 120
 gttaaatttg gagacatacc cagagcataa gttaagtaag taattgaaat attggagtgg 180
 agacttattt gtctaccgaa ttattgtttt ctttgtcgga catacaccta cactgcattc 240
 cctcaaagta aaatttaagt gtggctctgt gcctatgctc tccccagcgg aaagtgacca 300
 gaagaggtgt gcagtttccc aggcctggcc catcacagacc tccaacaggt gctcccctgt 360
 gctgttactc cttctgccaa ctggaagcag atggtgacca ggctctggag aaggcaaggc 420
 ctgaagatgg gagattccta agtggaggag aactgtgcct tactgaccta aatatccact 480
 cagtattgtt atgtgagaat aaataaactt gtgttgaccg tttaaaaaaaaa aaaaaaaaaa 540
 att 543

<210> 1004
 <211> 895
 <212> DNA
 <213> Homo sapiens

<400> 1004
 tgtcttcatt tttcctcctg tctgcattcc tctctctctc tctccctctc tctcctgttc 60
 ctctctttct tctcctctct cctgcctttt ccattttccg ttccttgggt ttgtgtgtct 120
 gcatctccat cttaccctct gctgactgt accccgtaga cccctgtttc tctcctgca 180
 cctgtgtccc catctgccct tcttgttgtt cctgtcatgt gtcaccatct tccctcctgt 240
 ctgccttctt cctccacttg tgtcagcttg cattttttta ttcctgactg agtcaccaca 300
 cccctctccc ctgatcaaag ggaatattag tttttaattt ggatcgactg aggtgccagg 360
 agaaactgca gtcccaggta tccagacagc caccaggatg gtccctcgcc ccacccccac 420
 cgctctctcc caccttttcc aacgtgttgc atgctgggag ctgggggggtg tgggggaagg 480
 ggctgcccgc ttcttttcagg aggtgaggt ttggaggcaa aatcaacctg ggagaccacc 540
 ccggcccgcg cgctcagtg gacaggtggg aggaaaagaa aacttcttac cttggaggag 600
 ggacatcccg ctctcttctc cttagctttt ttgttgctcc tccccactgc cccttttaaat 660
 ttatttggtt gtttgccggg ggagggggga ggggggtagg ctgggcccgg aactgtccga 720
 ggtgctgagc tggggcgagg ccggaatcct cccggtaggg tcccagggaac tgagttggcc 780

654

tgggggccgtg tccaaggtgc caatgatgcg ggccgacaga gcggggccgca ctgtctgtct 840
gtccgtctgt cccggaaaga actataaagc gctggaagcg cctgcaaaaa aaaaa 895

<210> 1005

<211> 763

<212> DNA

<213> Homo sapiens

<400> 1005

gggggcttca tcgctcatag aatatgttat tttcaaagaa gttcaagaat tttcaagttg 60
agcctttgaa aatcccataa attgggtttta gctaaacact tactagtagt gtctttaaat 120
tatttaataca accttgtctt ttcaaggaaa ttaccactt aaagagatag ttggtaaata 180
aacatctatg ctttttctca gaaatgattt gctgaactat gtccatattt tacagcttag 240
ataatagttt atatggaaac tattatacat ctgctattgt gcaatgattg ttaaattata 300
ctgaagtagc tctagaaaga cacatgtata caaggcacta ttgtacacac tttgctgaat 360
attttgtcag ttgtattttac aaagaaaggt actttcttaa gagcatatat gttattaata 420
tttgatatga ttttaaagtc agaatagtac agattgctga gtattatact ttaggctaga 480
ttaattaaaa ttgaatactg aaagagattt tttgagttgc aaaaagtta taaatgcaaa 540
gcaaaaagaa aacattttatt ttctgagtct gcaggagaaa caaactaaac attatagttt 600
tatagctgct atcttggttaa ccaaacaggk tgttcataat attaaaaatc ttacgtagtt 660
gtgttaaaact gaaccagttc attatacctt atgcattaaa ttaaatatgt tataaggtgg 720
ctttacttgt ctttataaaa ataaatatat ctactaaaca tga 763

<210> 1006

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<400> 1006

ctcactaaag ggaacaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg 60
gatcccccg gctgcaggaa ttcggcacga gattttttgt gtatgtgttt cttcccagat 120
agctacatta ttggttactt gccaaacaacc ccatatactt actattttca aaatctaagc 180
agatagcaaa aagctcacca cagancataa aatgaatgga ttgctttttt aaaaaaagtg 240
gataattgaa tgaataaata cattttattgt ctctnattga acctgcttgt aagccctaca 300
tantgcccac acagccctaca aattcacatt ccacatgggc gactccacct gct 353

655

<210> 1007
 <211> 546
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (535)
 <223> n equals a,t,g, or c

<400> 1007
 ggtgatgaac agttctgtat cctgattgcg gtgggtggtaa cgtgagtcta tacatatggt 60
 aaaatttata gaactgcata ctctcaaaaa aattagtttt actctataat aatattagag 120
 cttaaaaaat tcatccctct tgcccatcag tagatcagga tatgaaggat accattgaac 180
 ataaatattt tgtatccatg atgaatacaa agtatattct cctggaaaac caatagaaca 240
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 atgtgctctg tataatgtaa taatagtaac aaaaggcctg tccacttgga aattttttaa 360
 tgatcttcta aataactcat ttaaaggaga aatcaaaaata aattgcaaata tatttagaat 420
 taataaaaaac ttctctaaag ctgaggaatt ctaccmaaga ggtgtagag gaaattgtat 480
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 aagctt 546

<210> 1008
 <211> 4015
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (4000)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (4010)
 <223> n equals a,t,g, or c

<400> 1008
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 gggcgtgcgc gcttgtgcgg agccggagggt gggggccgaa ccagccaagg ttgcgggggc 180
 cgcagagccg gacgaagacg gagggcggag cggcttcggg actgcggaga ctacacaccg 240
 agcgagcgcc tgggcccga ggcgcgatgc tgtggttcca gggcgccatt ccggccgcca 300
 tcgcgacggc caaaaggagc ggcgcggtct tcgtggtgtt cgtggcaggat gatgatgaac 360
 agtctacaca gatggctgca agttgggaag atgataaagt tacagaagca tcttcaaaca 420
 gttttgttgc tattaaaatc gataccaaaa gtgaagcctg cctacagttt tcacaaatct 480

656

```

atcctgtagt gtgtgttcca tccagtttct ttattggaga cagtgggaatt cccttggaag 540
taatagcagg aagtgtttct gcagatgarc ttgttacaag aattcacaag gtccgacaga 600
tgcatttgct aaaaagtgaa acatcagtag caaatggcag tcagtcagaa agttcagtg 660
ctactccatc tgcgtcattt gaacctaaaca acacttgtga aaactctcag tccagaaatg 720
cagagctttg tgagatacca cccacttctg atacaaagtc agatactgca acaggaggag 780
aaagtgcagg ccatgccact tcctctcagg agcctagtgg atgctcagat cagagacctg 840
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agaaaagaaa agaggaagaa cagagagaaa ttaagaagga aattgagagg agaaaaactg 960
gaaaagaaat gttggattat aaaagaaaac aagaagaaga attaacaaaa agaatgctgg 1020
aggaaagaaa cagagagaaa gcagaagata gggcagctcg agaactgata aaacagcaga 1080
ttgcattgga ccgtgcagag agagctgctc gttttgcaaa gacaaaaggaa gaagtagagg 1140
ctgccaaagc tgctgccttg ctagcaaaac aggcagaaat ggaagtcaag agggaatctt 1200
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ccaaagaaga ttataaaaag aagtactgg atttggaaat tgccccaagc gcttcggtgg 1440
tactgttgcc agcaggaaga ccaactgcat ccattgtaca ctcttcagc ggagacattt 1500
ggaccttggt gggaacagtg ctttatccat tccttgccat ctggagatta attagcaatt 1560
tcttggttag taatccgcct cccacacaga cttcagttag agtaacatcg tcagaacccc 1620
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agtataatat gtgcaataat cattgtttct cttatgattt aattcaacta aaattctact 1860
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gctaggtcct tgcttatatg gcaaccactg ctagaaccct aaaagaacca aaaatctgcc 2040
acagcctgcc tccatcagct tcttattag tatctcatat gccattagc cctatgcttc 2100
agatgacacg tttgttttag agctactttg ctccaagact cttaagccca aagtaactgg 2160
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tttttttccc cagtattgcc ctggagctgt ctctggaaag tagctggcga ggttacctta 2460
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cagtgaggca tcactttgtt tgcataaagt atacggtttg ttaaggcctt tgttcttg 2580
agatgcaaaa cagctgctag tctgcaacct agttttccct ctacacctta actgacgttt 2640
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atatgccttt agtcatttgg ttttcttaa aaagttgaga ttcttaattc gacttacatg 2760
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gctgttggtg ggagtgaaaa ccagtataat tcttctgaaa aacattttatc agaaacttaa 3060
aatatttcat accgtttgat ccagtagctt cttctaaatc ataaatgcag acaatgttta 3120
ggtaaagaca tactcattaa gtgttattta ttttactcaa gaactggaaa ccaactaaat 3180
gccttctata gaagtaattt ttgatgagga gaaatggtac aataactaatt aacaacttgg 3240
tttaacatgt ttactgagca tctgttaagt gttgggggaa aaagcagcag gatccagagc 3300
tataggtaca gtgtgatctc agctttgcaa acacattttc tacatagata gtactaggta 3360
ttaatagata tgtaaagaaa gaaatcacac cattataaat ggtaagattg gtttatgtga 3420
ttttagtggt atttttggca ccttatata tgttttccaa actttcagca gtgatattat 3480
ttccataact taaaaagtga gtttgaaaaa gaaaatctcc agcaagcatc tcatttaa 3540

```


657

```

aaagggtttgt catcttttaa aatacagcaa tatgtgactt tttaaaaaag ctgtcaaata 3600
ggtgtgaccc tactaataat tattagaaat acatttaaaa acatcgagta cctcaagtca 3660
gtttgccttg aaaaatatca aatataactc ttagagaaat gtacataaaa gaatgcttcg 3720
taattttgga gtaggagggt ccctcctcaa ttttgtattt ttaaaaagta catggtaaaa 3780
aaaaaaattc acaacagtat ataaggctgt aaaatgagaa ttctgcccc tcacctctta 3840
ccccagttact attctccaga ggtaattctat taacaatttc ttatgtaatt ttcagaaaaat 3900
ttgtatgcgt atataagcaa atatgtaatc tttatTTTTT aaataaatgg gatcatatta 3960
tawaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 4015

```

<210> 1009

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 1009

```

gaactgttga aaaactgttg tactgatgtc accggtgatt gaaggggtat ctttaattgg 60
ctaatttgaa agaaagycac aaaagaaagg catgaataac caaaatcctg ggatatttct 120
gaaactcagt cgaggtcagt agatctgtct gggactacat tttccatccc agttcctaac 180
aaagtttcat tttcttttct ttattctctg atgtaagagt taacagtga atgacccaaa 240
tcctgaaagc caatggagca acaataaaca tactcagata gattgcctca taaattcttt 300
cmagttagtt tttaaaagta acacattttt taaaagtcca cttkgcaaaa tgataattta 360
atatctgggt atcagnctct ccaaaggatt cctggaaaaa g 401

```

<210> 1010

<211> 756

<212> DNA

<213> Homo sapiens

<400> 1010

```

gcggtgcacca gccagacctc atgaactcag gaaggtgctt gtccaggagt tcctgggtgc 60
tgtgcccttc acaggcaaag actgcatttc ttcctcagct gycagtgagg tgctgssagg 120
attccctgta gaactktcag gccagtttat gaactgggtg gmaccygtgt cctcytctcg 180
gcccaggmag gagaaccatg agcaggcaga aggagacttt gcaaagtgcc tccccagca 240
tgtgtgccct ctgcccttca gagcctgcag atakkagggg tggcaaggac actgttctca 300
atgagcagaa cctccaagac acccaaagct gcctgtttgc cacctggccc tatgcctgcc 360
ccgttttctc cctcaaggcc ttcacccatg ctagggcagt cacctggaat gtcctttcca 420
ttacccttgc tgtaatgccc agcacagaac ttgatggcag gcctttgcat ggtagcctga 480
agcgatctca ccttctaac tgggtttgccc acaggcacac tggctcatgc ttacctgtgc 540
tgctgtgggt tatagttatg cgaattgtgg ttttacatcc ctaaaacaga agggcacggt 600
gtccagggga tagcaccag cccaacttca gtgtagacct gagctgggag ggaacctgtt 660
agtctcccca cctcttccct gaagagacag gcacccctcc cagccgtggt caacggaggg 720
agtggcactt ctgccttgag tccccagggg aaaaaa 756

```

<210> 1011

<211> 393

<212> DNA

658

<213> Homo sapiens

<400> 1011

```

tcgacccacg cgcccgtaag atatgacagg tggcgacaag tgctgagaag aaaaattgag 60
gaggggtgagg gagtagagtg gccaaagagcc tgggttttcag cagaggggagc tggagaatga 120
accagggggc gctggagctg ggggcgtggg agagtgtcag agagctggca tgaactggca 180
ggttgccttg aggggagggc tggttccaaa gccagtctta tagcaatttt tccatttctt 240
gatagtgaac tttggaagag ctagggggtkg ggaagatggg aagttgaacc acctctgaga 300
taaaactctc tgarggggct gargtkgwcc tgggttgggg tgcccctgct actggcmaga 360
gagaagcmaa ctccatatgg aagtaatctg gtt 393

```

<210> 1012

<211> 938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<400> 1012

```

ccggcaccgg ccaccacggg caccggggcca cgcccaggcc ctgctcctcg atgccctctg 60
cctgctcctg gacattcttg caccacagct ccgccccgtg agcacacagc tgtacacacc 120
cgtgaaaagc aacagctggc cagcctgggtg ggcacgatgc tcgcttacag cctgacctac 180
cgccaggagc gcacgccccg tggccagtac atctacaggc tggagccgaa cgtggaggaa 240
ctctgccgct tccctgagct gcctgcccgc aagcccctca cctaccagac gaagcagctc 300
atcgcgccgg agatcgaggt ggagaagatg cggcgggcgg aggcttctgc ccgkgtagag 360
aacagccccc aggtggatgg gagcccccca gggctcgagg gtctgctggg gggcattggg 420
gagaaaaggg tgcaccgacc tgccccacgc aaccatgagc agcggctgga gcacatcatg 480
aggcgagcgg cccggggagga acagcctgag aaggacttct ttggacgtgt ggtcgtcagg 540
agcacagcag tcccagagtgc aggggacacg gccccggagc aggactcagt ggagcggcgc 600
atgggcacag cgggtgggcag gagcgagggtc tggttccgct tcaacgaggg tgtctccaac 660
gccgtgcggc gcagcctgta catcagggac ttgctctagt tctctgagcc gcggacatgc 720
cctcgcattg cttcccgcag agtgcagaga caggaagctg gagatgtctt tataaagtca 780
cacctttaca gactgtaaaa aaaaaacggc angagcatga atgtatgaac tggaggaagt 840
tacttacagt ggggaaggggt ctttaataaca aggtctacct agcatgaagt atttaacatt 900
ctcccattcc cttaaaaaat atacatttta ttaaattgg 938

```

<210> 1013

<211> 523

<212> DNA

<213> Homo sapiens

<400> 1013

```

gaagaaactc actttccctg tggcacgtta atcttcattg ttttaattct gaagcataac 60
gtgccacagg gaaagtgagt ttctttactg tttgccagca gcaaggacaa aaagtgaatg 120
gtggggggccc aggagctccc agcttgagga gaaggccctt ccagaccagc gaaccggggg 180
tttggggcag gaggcaggaa ggatgggagg gtgtgatcac cgacacacac acacacgttc 240
tctctcttca ggggaaggggt ttccagaagc atttgcccat actctgaatg aagtattttc 300
atgccaaagg aaacctcctg aagagaagtg aattcatggc tgaggggaggc acgtgccctg 360

```

659

```

gctggggatg cacctgaacg ctgctcttca gcaagtgagt tcatagcatc caccagagct 420
tcccagctcc tcaagctgaa gacaggctga gcaaaaacca ggcaggccat gaggggattc 480
aaagaaacct aataggattg ggtgcggttg ctcacctcgt gcc 523

```

<210> 1014

<211> 232

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<400> 1014

```

gcaaaaaggt agctggagtg ggtttaaaat ttcgtataat ttcgtatgtg agcaagctgt 60
gtgatattaga ttatttttaa gattaaatgt ttttcaggta ttaatggtaa actataaaat 120
gtttgtcttct gtataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gnggccgtn ta 232

```

<210> 1015

<211> 423

<212> DNA

<213> Homo sapiens

<400> 1015

```

tttttagagaa ctttcagagc actgattttt gatagactaa gtggaaaatt tgcagagaaa 60
tgatggttgt aagtggacat gcaaaccaaa attggggatt ggagaagtca gactcactag 120
acttttggtt cgagtactat tgaactctct cctgatgaga agatgttttag ataagtacaa 180
gttaagaaaag tagcatatga ctggaaacta tattcagtgct actttctcca aaagactacc 240
cagaaaaata gacttatttt caaataccag ttatcaagat atattaaata gctgtattgt 300
ttagaatctt aatatgggat aaattagcat atgtattcac aatattcatt cagacatcat 360
tcccagacag cagggattta tttaaatggt agctgtctga gttttttaa atagctaatac 420
aca 423

```

<210> 1016

<211> 874

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (802)

<223> n equals a,t,g, or c

<220>

660

<221> misc feature

<222> (866)

<223> n equals a,t,g, or c

<400> 1016

```
catttttagcc ctaaattacc tgtggctggt tctttttatt tttttgacta cttttatatt 60
ataaatgtgt gttactgtct tatgaattca tggcaatata gttggatagc ctggatactt 120
tgtttagatga gtatttagct gtgtctgcaa atcttaaaag ccattagcaa agaktcgtgg 180
tatttttttc tttattttta aatgtttggg caccaaacct aaaagcaaaa gattgacgaa 240
rcatgtttct cttaaggcta ctgtattttt acaatacaat attaaattat ttaatttgag 300
aaatttagtt ttgcttatat gcacttttta aatatatact attttgaaga ttccttatgt 360
aaatgcaaat ttcctagtta aaaccgaata acagagatct gaaatgactg agaaaaactt 420
ttttattaaa ggaaggaatt aatttaaggc aattttttaac tatgtagaac taattgcca 480
tgtttaatta tagcagacac gccattctaa caggattttg ataccattgg atgcattatt 540
ctagggtttt tctttaataa aaatggaaca agttttcatt tacattccaa gctgtcagga 600
aatgaagaat attttattat ctaggatttt atctgatgta gttgcttaaa gatctgatgt 660
gctataattc catgaatcag aaataataaa atgctatcat tctggatctg aagacttttg 720
atactttttc aaaagcaaaa ttaatttcag gaacctttga taagttgttg ttataattaa 780
tctaattttg tatagttttt gnaaataaat taccatcctt cacaattagg gatgctttta 840
tccccccatc actaaattgc agttgnttga tacc 874
```

<210> 1017

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1286)

<223> n equals a,t,g, or c

<400> 1017

```
ggcatataag gaatcttcaa aatagtatat attnaaaaag tgcataaag cactttttta 60
atatatacta atttgcattt acataaggaa tcttcaaaat agtatactat ttgaagattc 120
cttatgtaaa tgcaaatttc ctagttaaaa ccgaataaca gagatctgaa atgactgaga 180
aaaacttttt tattaaagga aggaattaat ttaaggcaat ttttaactat gtagaactaa 240
ttgcccattg ttaattatag cagacacgcc attctaacag gtatttgata ccattggatg 300
cattattcta gggtttttct ttaataaaaa tgggaacaagt tttcatttac attccaagct 360
gtcaggaaat gaagaatatt ttattatcta ggattttatc tgatgtagtt gcttaaagat 420
ctgatgtgct ataattccat gaatcagaaa taataaaatg ctatcattct ggatctgaag 480
acttttgata ctttttcaaa agcaaaatta atttcaggaa cttttgataa gttgttgta 540
taattaatct aattttgtat agtttttgta aataaattac catccttcca caattaggga 600
tgcttttatc cccccatcac taattgcagt tgtttgatac caaaataaat ttacgtagag 660
atccttaact taaaataaat taattttttc aaaaaacata aatctggaac tgttgtttct 720
atatttgata acaataacag tatattttat ttataagcca tgggtctactg atactgtatg 780
aggactttcc ttatatataa aagttgcagg gattgtgttt tattagctgc ttttaattatg 840
```

661

```

ttaatttttag agagttttta aatggaaata gaggacattt atgaaacgct ggaattgcag 900
ttacaaattc tttttgttgt tggtgttcct gaacatgcct tggaataatt ctaccatttt 960
ttccccctcc ataaatcttt ctaataaagc atagaaaaag cctatatgat tttaaatgcy 1020
tctcttaagc tggtaaacag atttgagtta tgagttcatt gttattgcct tcaagatgaa 1080
aagacagtga tataattttt ctatttcaac ttaaaagtaa tagttaatat gctaaagtag 1140
tacagaataa actttattgc tgcttactaa ctacaaaata ctgtagatgg catctgtatg 1200
attaaacata taaagtaaaa caggtctgag ggctttgtag atgattaaag tctccacctt 1260
catgaaaaaa aaaaaaaaaa aaaatnt 1287

```

<210> 1018

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<400> 1018

```

attgtgatga gttatccagt aacttacagc atatcagtc tttctgattc ataagataag 60
tctgttcttt aaaagtactt aactaaagta tatgtacta caataaaaag ccttsaagta 120
tgtcaatatt aatccccaaa ctacctcaag aaatcccttt aacctccaga aattatcact 180
gtataattga catacaactg aaaaatacag cacatcgaat ctagcaattt atcctattaa 240
ttgccttatt aaggtaacat ctttcaaagg gaaaaaaata aatttttagta atgtttcagt 300
catctttaa tctaaaattg tgaagacatt ctgaaacttt gcttagttta caaatataaa 360
gatttccata ctgacaatta ccaaatacca aataccttta ctggaaagaa acctagtgtg 420
aaacnattac cgggatcaag tagcctaaaa tttagtangg ng 462

```

<210> 1019

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

662

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<400> 1019

```

cactacccta ntaaggaggt catctctcct aaatttatatt caccctgact gtggggataa 60
tcatactcct caattcaggg natactatta ttatcagttc gtccaaggcc tctgttggct 120
tattttatatt ttttaccccc tttatcacta ctccccatt tcctccnaaa ctttcataag 180
caaaaactta attgtctggc atctgtcttt ggatatggag tgtttctttr aaaaawatta 240
agtgttgttt tacatatatg tgtgtgtgwt twaaattttc ataaatggca atatgctatg 300
aatagccttc ttttatattt ttcattaaat actctttcaa aatgaatcca tgatacagca 360
tggtccc                                           366

```

<210> 1020

<211> 750

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (684)

<223> n equals a,t,g, or c

<400> 1020

```

ggaagaacca gcagtgaag atggantagg aagcagaggg aagaggggaa ggatgtgttc 60
acaggagagg ccaagaggca gcgggggtgg gatgaggggt gcaaagcgtg aatttatgca 120
tttctccagt ctagggttag ttagtatact ccctgtgaat gtcaatacct gtaaatagata 180
cttttaataga agggagatta tccccttgaa tgtttggttt gtatcttgtc ctagaccag 240
agttgccatt ctctaaatat ctaaatagact attattatatt tatctctctc ttttacacac 300
acacgcgcac acacacacac agagaaatgt tgtttatgag attttgtata tttcacatac 360
ttcatattct ttatatgata gatgaataat gtgtagtttt tcaaagtttt gagttaatta 420
caatttaggt actattttcta aaaggaagat atatttgtgt tcttactttg gtggctgaga 480
ttacttaag gggataattt gctcccaaat tcctaagaat ggtacaggaa ttctaagggtg 540
actaattctt atttcatttt tttatgaata cttttatctt gaaatgtgta atacaaatct 600
ggtcagagtt ctatataaaa attatatttg gaatcagact tatgtgtgtg tactttttat 660
ttgatattta ataatgcctt aagnaggtta ttcaaatttt tattaaagtg aaatgatttg 720
acagtcagac tttgaattta atgcatgcat                                           750

```

<210> 1021

<211> 1333

<212> DNA

<213> Homo sapiens

663

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<400> 1021

```

acaagggtttt gaacgacaga ctacagctgc tgttgaggctg ctgaaggctg tgcactgtgg 60
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gattcagcta tatgataatg acattttattt tattccaagg aatggttggtc atcagttcaa 300
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tctgtttttt cagataaaact tcattctwaa tatgaattac agcagattaa acatgaacct 540
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aaatgtgtca gcaactgtagt gtaaatagct tttaaatatc ttttttagtgt gattttatact 1260
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aaaaaaaaaa aaa 1333

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<210> 1022

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<400> 1022

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ggcagagcta aaataatgac tacctaacac ctgggtaaat atgtctccag accttttcaa 60
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aacatacttt ttttcattta acatactgag gcattttaaaa ttttcagttt gttttttattg 180
tagcaaacat gtagtaaggg tttgggttggc tttcagtggg taaaaggacg gtatccaaag 240
gggggtttga atttccact tctgggaaca gactcctatt aaagttccag gggactatct 300
gcagtggsgt gctgaacaaa agatatcagc agtgcctatc attgtagtaa cttgggtaac 360
tcttccaaat actttgtgtg aactatcaga aatctttggg aattttttta tgtacattct 420
tgaaattctg aatgtacaaa tatggagtgc catttaaaagt ttttttttta attttaagtc 480
ttgcatccat taatgtattc tcttaaactt ttatccttat atatttatna gctctgaaat 540

```

664

cttggggccac taggcacttt ggggg

565

<210> 1023

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 1023

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ctggcagtct gtgcaccgga gttggctcct ttccctctta aacttggtgca agagatcgct 60
gagcgaatgaa ggtagaatta tggctcctcct tgccttgcc ttcccttttt gtgatctcaa 120
agcatcctcc ctccgccctc attccatggc ccaggtccc tactcccaca gctgtctgct 180
gaaactgccca acattactca attgtttctg gggggaggaa catttttttt tgaaacaaaa 240
tagatatatg aaacagtaca cgggaattaa cacgaatatt taaggtaaaa catgaccttg 300
aagattatga aatccatctt attttggccc agaacggggg cattgggctc cttggggccat 360
aggggagctg gggaggacag ggtgaagagt tagctctaag cctctgctt ggagatgctg 420
taaatacaga acgcaaaatc accttcgaag ttaaagacgc gaaagtctct cttttctcng 480
gcccttcttc ccttcccccc ggccatttcc ttccagtacc antng 525

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<210> 1024

<211> 908

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 1024

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gtgatggact atcgcgacgt agatcaaata agtataaaat gcctcagttt tgtecttttt 60
agtgaacat aagtactggg ataccctatc ctaattaggg atcatttgaa agcttttccc 120
aaattgaggc cntgctgcct tctccccatc ccctgggggt ttaaagtgat ttcaaactgc 180
aacctagttt tagaaccact gttctgggta gttgggatac tgaaggcata ttgttaatta 240
ttctacttgt atgttttgct aattctaaga taagcatttt tccagaaacc aggatgtaga 300
atccagytgc catygacatc ttaacatttt aggaacaac tttaaaatga tatactatct 360
atctatctat ctgtagcaty ttaaaggtaa tgaaattaat gtggcagtag gtctttttaag 420

```


665

```

cttctgccta catccatatt gagtatagtt gttgtcttct aaaataatta attgattttt 480
ggtgagataa ccagattcat attttaagcc ttttgtaatg gccccgtggt acctggagtc 540
aaggttcaga agtaaaaagt tccttaaggt atcaataaca aaaatttgta ttaatagttc 600
agtcctaaag cagtgttgct gagattatgt ttcaccagca tttaacaagct gtatgttaaa 660
tgctgccata aagaggtctc tgaagccgta gggcacaccc aaggcagggc tgaraagtac 720
ctagtagtgt gcmccmcccr aaaaccatgg atggcagcag ccacatytc agcttaccca 780
ttcactgccm cagtytacag cttaagacmc ttaactacaa ggtaaaagaa aaggrccaag 840
taaatacaaa aagtittyta ttaaaaaact tggaagccca aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaa                                     908

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<210> 1025

<211> 421

<212> DNA

<213> Homo sapiens

<400> 1025

```

gggtacggtta attcccaagg taagctcttg atctagatct tggggcctat agaaatattt 60
ttaagggaca tcaaagggtc ttgggaaatc tgcctagtga gggtaagcaa gatgaaagag 120
ggaaagtgtg tatggttaat agtttgtag gaactccctt ccaagaggca agcttttgct 180
atctctatgg aatttgaggg cagttggaca atttgcaagg atattctcac ctgttcatta 240
aggtcccttt cctccagtaa gagaatggct agggctctgtg ggataatctt aagcacctac 300
tggtgctttt ttgttggttt gcttatgcaa gtgatcattt attttttagg agtgatttgg 360
aggaagagta tgaggcaagc ttgtttttct ccagtgtaat tgatggtcac catgcatggg 420
t                                             421

```

<210> 1026

<211> 887

<212> DNA

<213> Homo sapiens

<400> 1026

```

gattgcgtaa cagaactttc tgtacatcac agaaacaaca ggcaaacaat ggaggattta 60
atttcaactgt ggcagtatga tcacctcacg gctacctatc ttctgcttct agccaagaag 120
gctcggggaa aaccagttcg tttaaggctt tcttcyttct cctgtggaca agccagtgtc 180
acccatttca cagacatcaa gtcaaataat tggagtcttg aagatgtgac cgcaagtgtat 240
aaaaattatg tggcgggatt aatagactat gattgggtgtg aagatgattt atcaacaggt 300
gctgctactc cccgaacatc acagtttacc aagtactgga cagaatcaaa tgggggtggaa 360
tctaaatcat taactccagc cttatgcaga acacctgcaa ataaattaaa gaacaaagaa 420
aatgtatata ctctaagtc tgctgtaaag aatgaagagt actttatgtt tcctgagcca 480
aagactccag ttaataagaa ccagcataag agagaaatac tctactacgc aaatcggtac 540
actacaccct caaaagctag aaaccagtgc ctgaaagaaa ctccaattaa aataccagta 600
aattcaacag gaacagacaa gttaatgaca ggtgtcatta gccctgagag gcggtgcsct 660
cagtgggaatt ggatctcaac caagcacata tggaggagac tccaaaaaga aaggagacca 720
aagtgtttgg gagccttgaa aggggggttg ataaggttat cactgtgctc accaggagca 780
aaaggaaggg ttctgccaga gacgggcccc gaagactaaa gcttcactat aatgtgacta 840
caactwgrtt agtggtattc cggttcaact gtttggtatg aattaat                                     887

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<210> 1027

<211> 461

<212> DNA

<213> Homo sapiens

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MISSING AT THE TIME OF PUBLICATION

683

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 1053

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tcaagagaga tgagctcagt tcctaggtca tgccccagtc tgtagtgaca tgctcctgta 120
tgtaacggaa atggccatgt ctacaggagg taaaatcaca ccaacctggg aagaggaaaa 180
gccagtgagg ggcagtacag cagggggcagc cctctccact gaargcagtt gtttgccctga 240
ctccatggca tttgtgtcca ttagagtcta raagargtgt tggcaaactt tctacaaagg 300
gccaratakt aaatatTTTT ggcttttgaa rctaratggg ctctgtcata accactcmac 360
tccgccattg tagtgcaaaa gcaaccatag accatatgta tacnaatgga tatgggcctg 420
gtccaataaa aactttttatt tacaaaaagc aaggcnantg ggccca 466

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<210> 1054

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<400> 1054

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ttcggntaaa aaaaaaaaaa aggactgtgt aagggttactt aactcctctg gggcttgctc 60
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tatgtaaagc atttggccca atgcctggca ctgctaagca tgcaataaat ggaagttact 180
atcataatgt gtaacacata taattatgac aattatattt ccaagatatt ctgggatctt 240
tacagtttca taattttgct ctttttacta tacaacactc cttttattga aacaaataca 300
gattttggag tcagacagac ctagtctgga tttgaattcc agctctcctt cttaccagcc 360
tgggggccatg gagaatgttg tccatttccc tgagcctcag tgttcttctc tgtaaaatgt 420
ggatgatacc tgactcccag gcattttgcc aggattacat gggattccta cacagtgcaa 480
tgtctagtga taatataaat actaaaagca acttgttaaa tgtataaata aatgtgattt 540
atttttgctc cttttaa 557

```

<210> 1055

<211> 2872

<212> DNA

<213> Homo sapiens

<400> 1055

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catgcctgat ggagccactt tggctattgg atcttcccgg gggaaaatat atcaatatga 60

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684

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ttaaagaatg ttgaaatcac cagttaagac catcagtgtt cacaagacat ctgtgcagtg 120
tatarcattt cagtactcca ctgttctttac taagtcaagt ttaaataaag gctgttcaaa 180
taagcccaca acagtgaaca aacgaatgtt taatgtgaat gctgctagtg gaggagtcca 240
gaattccgga attgtcagag aagcacctgc cagctccatt gccacagttc taccacaacc 300
tatgacatca gctatgggga aaggaacagt tgctgttcaa gaaaaagcag gtttgcctcg 360
aagcataaac acagacactt tatctaagga aacagacagt ggaaaaaatc aggatattctc 420
cagctttgat gatactggga aaagtagttt argtgacatg ttctcaccta tcagagatga 480
tgctgtagtt aacaagggaa gtgatgagtc cataggcaaa ggagatggct ttgactttct 540
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attgcattct agtcctctta atgtttttat gggatctcca gggaaagagg aaaatgaaaa 660
ccgtgatcya acagctgagt ctaagaaaat atatatggga aaacaggaat ctaaagactc 720
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cctgttgctt ttttaaaaaa ataaatacac ataatgtata ttaaaagagg tgggatgaaa 2760
taatttttagt aattatgtgt acagatgaaa catttttgtc atggaattta aaagctaagt 2820
aagtataaaa aataaaatgt tatatgcaaa aaataaaaaa aaaaaaaaaa aa 2872

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<210> 1056

<211> 552

<212> DNA

685

<213> Homo sapiens

<400> 1056

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acttctgaac tgtcaaccag aacacagaaa tctgtatta cttgctgtag tctggacagt 120
ttaggggaac gtggcaccga tctcatcttc accgtcgatc agtggttctc tgacttggtc 180
cagtggccgc acaccagcta gtgaagaaaa ccacagactc caactgcact gtgtacgstc 240
tggtgtcctc atttccaaaa aaaaaaaaaa aaaatctcca agatagagtt taagaaatct 300
catttgagtt gccctgctaa tatttgcagc tcgctgggtg gtgccgtgga ggccagtact 360
caccgtcagg ctgtggcagg tacagtgaag ggaaaaactc catgagagaa cggtggaaag 420
ttcacctgag agtgaaacgc atgccagtta gagtggctga aaaatagcat ggacaacacc 480
agctagtga gaaaaccaca gactccaact gcactgtgta cgctctggtg tcctcatttc 540
caaaaaaaaa aa 552
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<210> 1057

<211> 871

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<400> 1057

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acaggggtctt aaggaacagt gtgaaaacct acagcaagaa aagcaagaag caattttaaa 180
ttatgagagt ttacgagaga ttatggaaat ttacaaaca gaactggggg aatctgctgg 240
aaaaataagt caagagttcg aatcaatgaa gcaacagcaa gcatctgatg ttcataaact 300
gcagcagaag ctcaagaactg cttttactga aaaagatgcc cttctcgaaa ctgtgaatcg 360
cctccagggg gaaaatgaaa agttactatc tcaacaagaa ttggtaccag aacttgaaaa 420
taccataaag aaccttcaag aaaagaatgg agtatactta cttagtctca gtcaaagaga 480
taccatgtta aaagaattag aaggaaagat aaattctctt actgaggaaa aagatgattt 540
tataaataaa ctgaaaaatt cccatgaaga aatggataat ttccataaga aatgtgaaag 600
ggaagaaaga ttgattcttg aacttgggaa gaaagtagag caaacaatcc agtacaacag 660
tgaactagaa caaaaggtaa atgaattaac aggaggacta gaggagactt taaaagaaaa 720
ggatcaaaat gacaaaaaac tagaaaaact tatnggttca aatgaaagtt ctctctgaag 780
acaaagaagt attgtcagct gaagtgaagt ctctttatga ggaaaaaatw aactcagttc 840
agaaaaaaaa ccggttgagt agggatttgg a 871
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<210> 1058

<211> 544

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

686

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (408)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (434)
 <223> n equals a,t,g, or c

<400> 1058
 gctcgaactc ttgagttcaa gcaatccacc tgcctccacc tcccaaagtg ctgggactac 60
 aggcgtgaat cagtgcacct ggcctgatag tcacctttga agagttgtga tataaccattt 120
 tactagataa atggtaatat gccattataa tgcaactcaa tgtagatgag tctggaagag 180
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 agataatcga cagactgtag ctatactctg tgggtgattgt ctggagttac atgttgctga 360
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 ctttggaat gaanggacca gtgaagacct tcactcgcaa tgaargtgtw cttttctatg 480
 caattaggct cttggctacc tgccagaaaa accagatgtt ttctactga agcaatttca 540
 aaag 544

<210> 1059
 <211> 597
 <212> DNA
 <213> Homo sapiens

<400> 1059
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 gcatcaccaa gatgacacca agtacagaac caaaagtttc aaaggtgaca gaacctttct 180
 ggaagggtac cacactcgtg ggtagatca ctcatcctct tggcaggatc acagtcgctt 240
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 ggaatatggg agctaaaaaa gcaaatgtaa tttgttattt tacatgagta tgttaciaat 420
 aataacatct ctattcttac agcaatttgg ccagattat ctaacagaca tacctgcagc 480
 tttggctctt tgggtattgcc aaacattgac aaaagtgaca atactgttgg tccttgtgaa 540
 tggtaaacca atccaaataa tatcagatca tgaatgatgt gcagctaatt tatttgc 597

<210> 1060
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

687

<222> (96)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (334)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (344)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (380)
 <223> n equals a,t,g, or c

<400> 1060
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 gaggcattcc cctctggttg tacagcgaca gctggngaga gaaggcagca gccctgaagg 120
 cagtaccagg aggacgatcg aggggcagtc tccggagccg gtgttcggag atgctgatgt 180
 ggatgtgtct gcagttcagg cgaagttggg agccctggaa ctgaaccaga gggatgctgc 240
 agctgaaact gagctcaggg tgcacccacc ctgccagcgg cactgcccag agccgcgagt 300
 gcacccgaag aaaacaaagc caccagcaaa gctncccaag gtancaactc aaaaaccccc 360
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 tggga 425

<210> 1061
 <211> 593
 <212> DNA
 <213> Homo sapiens

<400> 1061
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 ccaccaattt gattacgaaa aatcttttcgg gcttccaggg agctttggag cctggaaatt 120
 gcagatgagg gatgggggcc tgcactgttt cgcggtcggg gagagggagc tcatccgaag 180
 tcttccgaca gaggtgggcg tcatgcccga cgctgagcgg agtgggtctc ctcgagccca 240
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 gcttcacgat ctccctaccgc ggcgggccgc gtacctcctg gatggcctct tagacgttct 360
 ctgagtcgct gcgcgacagg ggcagcaggc acaccagga gcccgtacg ctgcaggcct 420
 tgaagctgcc gctgcttcg aggttgccgg cgaggaggcg gacgacggcg cgcgtcaggt 480
 cgtccaggga ctgcgcgggc cgcacgggcg ccgtgggccc caggtacagg caggcgggca 540
 ggccggtgta ctcgaagggg tgctccacca gtacgtacac gtccccctcc aca 593

<210> 1062
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 1062

688

```

ggcagagctt tattaaagta cagtattata agaaatcaca ggcgtgagca cctgcgtcca 60
gccaaaaagc tttttttgaa tgtgatctgt gtgaaaataa ttccctatgg tatgacatat 120
gataggcagg gatgatgtat ctcakaaatc atactcctgt cttgatatcc catcaaatat 180
caatgtttac atttagcgtt tggatgtctg gcaggacatt aaaaaattgg cagagctgtc 240
ccacacatgc agaacatcta tagcgttctt gcctcctcaa aggtaatctt catgtgacaa 300
caacaacaac aaaaaaaaaa aaaaaaaaaa tt 332

```

<210> 1063

<211> 2340

<212> DNA

<213> Homo sapiens

<400> 1063

```

aggcgtctgc gagacgcgta gaggagcgcg cccccgggcc gmtgccgmcc ctggcccgtg 60
ccgtcacccc gcttctccgc gcctcgggcg gtaccacagc agtccccagc gccgcgtac 120
cgcgctgacc ggccctccag acgcctcccg gtacccgga cccagcccc gccgctcgcc 180
cgcagcccg cgcccgca caagcctccga gccggcgcta gggcgggcg cagggcggt 240
cggcgcgatc aggcgtgggt ctgtagcgt cccatggccg cggccggctg gcgggacggc 300
tccggccagg agaagtacc gctcgtggtg gtcggcggg gcggcgtgg caagtcggcg 360
ctcaccatcc agttcatcca gtcctatctt gtaacggatt atgatccaac cattgaagat 420
tcttacacaa agcagtggtg gatagatgac agagcagccc ggctagatat tttggataca 480
gcaggacaag aagagtttgg agccatgaga gaacagtata tgaggactgg cgaaggcttc 540
ctgttggtct tttcagtcac agatagaggc agttttgaag aaatctataa gtttcaaaga 600
cagattctca gagtaaagga tcgtgatgag tcccaatga ttttaattgg taataaagca 660
gatctggatc atcaaagaca ggtaacacag gaagaaggac aacagttagc acggcagctt 720
aaggtaacat acatggaggc atcagcaaag attaggatga atgtagatca agctttccat 780
gaacttgctc gggttatcag gaaatttcaa gagcaggaat gtcctcctc accagaacca 840
acacggaaag aaaaagacaa gaaaggctgc cattgtgtca ttttctagaa tcccttcagt 900
tttagctacc aacggccagg aaaagccctc atcttctctt tctcctccta gtttacatct 960
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gctctttttt taagtgttta cattttaata gagatgaatc agttttggaa tctaagctgt 1200
ttgccaaagt gaagctacag gttgtgaaat aatttttaac ttttggaatc atactgccta 1260
ctgttactct aaatagaaat atagggtttt ttttaattgt aatttttgcc tatctttaaa 1320
catttcaatg tcagcctttg ttaaccttaa atacactgaa ttgaatctac aaaagtgaac 1380
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ctgttgattt tatggattaa aaactgctta taaaaccctg tgttactact cctactcttg 1500
gagatgataa tattctatgt ggtcaaatat ttggactcat ttaggactta gatatttcag 1560
tgtacttgat tttttaattt aactcttttt cacagccacg ctaagggtta aaaggaataa 1620
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ttttgttgtt aatataaaat atggaattga tctttccagg gtcagagatg attaatgttt 1740
ttgctatata cttttataca ttattttctt atcaaactag ttaacaagta tttttatatg 1800
tttgtaagca gatatgcttt catagcatac cttgtgtata tgtaaagata agtatttaat 1860
tctcactgtt cacttttaac tgacaaagaa aaacaagtgg aaactacaga aactgtggta 1920
gaacttttac ttgctgggtt ggtcttgggt gtacccatct ttggccagtc acataactac 1980
tcaagaaacc tcccaatag agtacaacag gatgagactc tgaaatcact ttcagtattc 2040
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ataactgtgg atggcatctg attttgtttt taattctgtg gattgtgttt aagcaattca 2160
atagtatgtt cctgattttg agatgctaag tggatttgca cagttgtcac tttatcaagt 2220
gtgtacaaca gtcccatgaa gtttatagag catacccttg tatagcttca ggtgctagaa 2280

```


689

ttaaaattga tctgttatca caaaaaaaaaa aaaaaaaaaa aaaggctctt taattaggcg 2340

<210> 1064

<211> 1647

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1629)

<223> n equals a,t,g, or c

<400> 1064

```

gcgggcgtg aacgggacgt accaccacca ccaccaccac caccaccacc atccgagccc 60
ctactcgccc tacgtggggg cgccactgac gcctgcctgg cccgccggac ccttcgagac 120
cccgggtgctg cacagcctgc agagccgcgc cggagccccg ctcccgggtgc cccgggggtcc 180
cagtgcagac ctgctggagg acctgtccga gagccgcgag tgcgtgaact gcgggtccat 240
ccagacgccg ctgtggcgcg gnacggcacc ggccactacc tgtgcaacgc ctgcgggctc 300
tacagcaaga tgaacggcct cagccggccc ctcatcaagc cgcagaagcg cgtgccttca 360
tcacggcggc ttggattgtc ctgtgccaac tgtcacacca caactaccac cttatggcgc 420
agaaacgccg aggggtgaacc cgtgtgcaat gcttgtggac tctacatgaa actccatggg 480
gtgcccagac cacttgctat gaaaaaagag ggaattcaaa ccaggaaacg aaaacctaag 540
aacataaata aatcaaagac ttgctctggt aatagcaata attccattcc catgactcca 600
acttccacct cttctaactc agatgattgc agcaaaaata cttccccac aacacaacct 660
acagcctcag gggcggtgac cccgggtgat actggtgcgg gagagagcac caatcccag 720
aacagcgagc tcaagtattc gggtcagat gggctctaca taggcgtcag tctgcctcgc 780
ccggccgaag tcacgtctc cgtgcgaccg gattcctggt gcgccttggc cctggcctga 840
gcccacgccg ccaggaggca gggagggctc cgccgcgggc ctcactccac tcgtgtctgc 900
ttttgtgcag crgtccagac agtggcgact gcgctgacag aacgtgattc tcgtgccttt 960
atthttgaaag agatgttttt cccaagaggc ttgctgaaag agtgagagaa gatggaaggc 1020
aagggccagt gcaactgggc gcttgggcca ctccagccag cccgcctccg gggcggaacc 1080
tgctccactt ccagaagcca ggactaggac ctgggccttg cctgctatgg aatattgaga 1140
gagatttttt aaaaaagatt ttgcatthttg tccaaaatca tgtgtctctt ctgatcaatt 1200
ttggttggtc cagaatttct tcataccttt tccacatcca gatttcattg gcgttcattg 1260
agaagatcac ttgaggccat ttggtacaca tctctggagg ctgagtcggg tcatgagggtc 1320
tcttatcaaa aatattactc agtttgcaag actgcattgt aactttaaca tacactgtga 1380
ctgacgtttc tcaaagttca tattgtgtgg ctgatctgaa gtcagtcgga atttgtaaac 1440
agggtagcaa acaagatatt tttcttccat gtatacaata atthttttta aaagtgcaat 1500
ttgcgttgca gcaatcagtg ttaaatcatt tgcataagat ttaacagcat tthtttataat 1560
gaatgtaaac atthttaactt aaggtactta aaataattta aaagaaaang ttaacttaga 1620
cattcttgng cttctttttac aactaca

```

1647

690

<210> 1065
<211> 252
<212> DNA
<213> Homo sapiens

<400> 1065
gaggaattgg aagcaagggg tctgagatgg ttgccatggg tatttccttc tagattgtgt 60
tactgctga gaccattttc ccactgtggg catgttttcc ttgagtcaat tttccaggta 120
ctctatatcc agcactctcc tccttccttt tctttaattc catttttagcc acacacaggg 180
gaatgggaaa gggcctgatt aaatcaacta tttttttttt tttaaaattt taatcttttg 240
ggggcccagg aa 252

<210> 1066
<211> 1095
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<400> 1066
tccccgcgc sttgcccgat tcattaatcc agytgccacg acagggtttcc cgactgaaac 60
cgccagctna gcscaacgca attaatgtga gttagctcac tcattaggca ccccaggctt 120
tacactttat gcttccggct cgtatgttgt gtgaaattgt gascggatac caatttcaca 180
caggaamcag ctatgaccat gattacgcca agctctaata cgactcacta taggaaagct 240
ggtagcgctg cagggtaccgg tccggaattc ccgggtcgac ccacgcgtcc gcaaaaatttc 300
ttcagtttat tatctgtaaa ttgtacagtt ttctttttga aagttttaat attgtcttcc 360
tttttaataa cttattttat acatattgtg cagatgtaaa tcttgtaatt aatgggtcaaa 420
ctgtataaag ggattggtag tcaaaacatg tacaaagaaa tacctgtaaa actgttttgt 480
ctcatgtttt attggaccaa agttgtgggt tgtatggagt gtagtagtag tgtgtacagg 540
tagaaaactt ttaaatacag catgcagggtg tttcagttag cttgttttca tcaccataac 600
tgcaaaagatg tggcttagtt gtattgcatg ctctctataa ttttaactct cataattgat 660
gcctgcagta gtgtaaggca tttcatacta gtctctctta gtagacctgt gacttactgt 720
gttggacata ttatttagac ttagtcatac aaagaaactt agctcttttt tcatctcaca 780
gtaaagccta tttccccagg aaaaaataa atgcctttga atgaaaattc tgaaattgta 840
aatgtctatt ttaatatcca cctatgaaag aatctgtgaa tatatgtaaa tacgtttaat 900
aaattttatt ggtcatgtta aatcattgta aaactttttt acattgctta atgttttaag 960
cttaatagcc tttgcacttt taaaataaaa accaagtatg caaatcaaag atatttggtta 1020
gtcaaaaataa gtaaaagaaa tataggaata ttccagtcaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaagggcg gccgc 1095

<210> 1067
<211> 661
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

691

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<400> 1067

```

cagccctaca ggcaacttga acggagagcg ctttgatcac tcaccagccc gggaaggcaa 60
gccccagtca ggcggaaggt agctggctgc ggggcggggc gactggcggg cggcggggagg 120
cgccaaccgg cacagacgac tcccagctgg cggagggcgg gaagggggca ggcaggggaag 180
cggccccgcc ttcgctcctgc cccttcgccc taytctgtca cctccgytgg aaggagtgga 240
acccakactt gctggtctga tccatgcaca aggcgggggt gctaggcctc tgtgcccggg 300
cttggaattc ggtgcggatg gccagctccg ggatgaccgc ccgggaccgc ctgcgaaata 360
aggtggccct ggtaacggcc tccaccgacg ggatcggttt cgccatcgcc cggcggtttg 420
cccaggacgg ggcccatgtg gtcgtcagca gccggaagca gcagaatgtg gaccaggcgg 480
tggccacgct gcaggggggag gggctgagcg tgacgggcac gtgtgccatg tggggaaggc 540
ggaggaccgg gagcggctgg tggccacggt garcttgca ggaatgggc acagagccar 600
gaagtggaaa aggagccanc tgamctkctt cctgctttcc taagacagca acacatnnga 660
a 661

```

<210> 1068

<211> 164

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<400> 1068

```

attccttata catgttaact aactctaagg ggaaagagat agatcataaa ttacatgtta 60
acgttgaggg gaaattgata gatcataaat taaaatataa tttaatatgt tatatatattc 120
tattgattta tatacctatg aaatanTTTT tatattgaaa ggta 164

```

<210> 1069

<211> 1004

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

692

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 1069

```

acattaacgg gaagcttcct atagggattg cgggtangcn tcccaggtag cgggtccggaa 60
ttcccggggtc gacccacgcg tccgagttat ttgagaattt tgggtgaaaaa tatttagctg 120
agggcagtat agaacttata aaccaatata ttgatatttt taaaacattt ttacatataa 180
gtaaactgcc atctttgagc ataactacat ttaaaaaataa agctgcatat ttttaaataca 240
agtgtttaac aagaatttat attttttatt ttttaaaatt aaaaatratt tatatttcct 300
ctgttgcatg aggattctca tctgtgctta taatggtag agattttatt tgtgtggaat 360
gaartgaggc ttgtagtcat ggttctagt tttcagtttg ccaagtctgt ttactgcagt 420
gaaattcatc aaatgtttca gtgtgstytc ctgtagycta tcatttactg gctatttttt 480
tatgtacacc tttaggattt tctgcctact ctatccagtt gtccaaatga taccctacat 540
tttacaatg ccctttcagt ttctattttt tttttccatt aaattgcct catgtcctaa 600
tgtgcagttt gtaagtgtgt gtgtgtgtgt ctgtgtgtgt gtgaatttga ttttcaagag 660
tgctagactt ccaatttgag agattaaata atttaattca ggcaaacatt tttcattgga 720
atttcacagt tcattgtaat gaaaatgtta atcctggatg acctttgaca tacagtaatg 780
aatcttgatg attaatgaat ttgttagtag catcttgatg tgtgttttaa tgagtatttt 840
tcaaagttgt gcattaaacc aaagttggca tactggaagt gtttatatca agttccattt 900
ggctactgat ggacaaaaaa tagaaatgcc ttcctatgga gagtattttt cctttaaaaa 960
attaaaaagg ttaattattt tgactaaaaa aaaaaaaaaa aaaa 1004

```

<210> 1070

<211> 1306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<400> 1070

```

accgtccgga ttcccggggtc gacccacgcg tccgtgaggt tacagattat gccattgcca 60
ggcgcatagt agatttgcag tcaagaattg aggaatcaat tgatcgtgtc tattccctcg 120
atgatatcag aagatatctt ctctttgcaa gacagtttaa acccaagatt tccaaagagt 180
cagaggactt cattgtggag caatataaac atctccgcca gagagatggt tctggagtga 240
ccaagtcttc atggaggatt acagtgcgac agcttgagag catgattcgt ctctctgaag 300
ctatggctcg gatgcactgc tgtgatgagg tccaacctaa acatgtgaag gaagctttcc 360
ggttactgaa taaatcaatc atccgtgtgg aaacacctga tgtcaatcta gatcaagagg 420
aagagatcca gatggaggta gatgaggggt ctggtggcat caatggatcat gctgacagcc 480
ctgctcctgt gaacgggac aatggctaca atgaagacat aaatcaagag tctgctccca 540
aagcctcctt aaggctgggc ttctctgagt actgccgaat ctctaacctt attgtgcttc 600
acctcagaaa ggtggaagaa gaagaggacg agtcagcatt aaagaggagc gagcttgcta 660
actggtactt gaaggaaatc gaatcagaga tagactctga agaagaactt ataaataaaa 720
aaagaatcat agagaaagtt attcatcgac tcacacacta tgatcatgtt ctaattgagc 780
tcacccaggc tggattgaaa ggctccacag agggaagtga gagctatgaa gaagatccct 840
acttggtagt taaccctaac tacttgctcg aagattgaga tagtgaaagt aactgaccag 900

```

693

```

agctgaggaa ctgtggcaca gcacctcgctg gcctggagcc tggctggagc tctgctaggg 960
acagaagtgt ttctggaagt gatgcttcca ggatttggtt tcagaaacaa gaattgagtt 1020
gatggctcta tgtgtcacat tcatcacagg ttccatacca acacaggctt cagcacttcc 1080
tttgggtgtgt ttctgtgccc agtgaagttg gaaccaaata atgtgtagtc tctataacca 1140
atacctttgt ttccatgtgt aagaaaaggc ccattacttt taaggatatgt gctgtcctat 1200
tgagcaaata actttttttc aattgccagc tactgctttt attcatcaaa ataaaaataac 1260
ttgtttctgaa aaaaaaaaaa aaaaaaana aaamaaaaa aaaaaa 1306

```

```

<210> 1071
<211> 150
<212> DNA
<213> Homo sapiens

```

```

<400> 1071
gacttggttct agatcgcgag cggccgccct tttaactggt ttaggtgtgt gtgtccagag 60
tgagcaagga ttatgttttt ggattgtcaa agaggatgct tagtcttaaa ataaaaataa 120
atttaaaaat catcttataa aaaaaaaaaa 150

```

```

<210> 1072
<211> 386
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

```

```

<400> 1072
acgcctgcag gnnaccgggc cggnaattcc cgggtcgagg ggccactctc ctgtctttac 60
tcctttttccc ttctctattc ttccaccaga agccctcatt tgaccagtga actcctaggc 120
cctcttgacc cgcacattag ctgggcgatt tccttggttc gctaattcct aattctgctt 180
aaaatgtatt tggatttctg tttttgaaca cttatgatgc caggcactgt aatgcttgaa 240
acccgatctt tccctagaga atgtaacata cgtttttatt catttaatca cttcattatg 300
ccgggggttaa ttatgtttat ttataaattg gtaataaagg ccacatttat ttttgtaact 360
gtttaaaraa maaaaaaaaa aaaaaa 386

```

694

<210> 1073
 <211> 623
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (23)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (27)
 <223> n equals a,t,g, or c

<400> 1073
 nntgagaaaa acccttgatg tgntganaac catcatgggg accaggatag aaggcttctt 60
 ccactcaaaa gcttttctcc ctggagggtg ggcactgctg ggccatgcac ttcaaagcag 120
 tgttcctcag caggaaagcg gaggtcacca cttaccggcc tctccacct tctcggttc 180
 tcttttctcc atgaaccag gtcgtccagc aggtacttcc aagttcccag gtctgtctgc 240
 ctaagagcct tttagaggaga ccgtcctgga gccccatcag tgcccagatc ctgggggtacc 300
 gaccattgct gtctagcagt gggggatcct gtggtgggaa tggggtgggc ttctcatcca 360
 tgttgcttct gggaagagag gggtgccttt ctgggctagg gaggtggctg gagcttctgc 420
 cctgaccctc cgctagaaac cagttatata cattgccaca gcaatactgt gtaacaaatc 480
 cgccaacact cggtggcctg caacagtcag cactgatcta gggcaggagt cagcagtctg 540
 ggcagggtga ttcttctggt ctaggctgkg cttgtttgtt tagggccatg gggtgttaag 600
 tcccagggg atgctccatg gtg 623

<210> 1074
 <211> 629
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (450)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

695

<222> (609)

<223> n equals a,t,g, or c

<400> 1074

```

cacttttatt aatttgcattg tcctttttaat atttatttat tcaaatacta ccgtatggcc 60
caccataatt acccccatac tccttacact attcctcatc acccaactaa aaatattaaa 120
cacaaactac cacctacctc cctcaccaaa gcccataaaa ataaaaaatt ataacaaacc 180
ctgagaacca aaatgaacga aaatctgttc gcttcattca ttgccccac aatcctaggc 240
ctacccgccg cagtactgat cattctattt cccctctat tgatccccac ctccaaatat 300
ctcatcaaca accgactaat caccacccaa caatgactaa tcaaactaac ctcaaaacaa 360
atgataacca tacacaacac taaaggacga actgatctct tatactagta tccttaatca 420
tttttatttg cacaactaac ctctctggan tcctgcctca ctcatattaca ccaaccaccc 480
aactatctat waacctarcc wtgggcatcc ccttatgarc sggggcagtg awtatagstt 540
tcgctcttaa aattaaaaat gccctagccc cttcttwaca aaagggatat tggtttttgg 600
aatacactnt tttctttgat tttttttaa 629

```

<210> 1075

<211> 556

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 1075

```

cgttgccccaa cccggtcccc gccccagac acgcccggct ctgggggcac cacagccatg 60
tgctcgtag cgtagggcg tcacggcggc cggggcgctg tggagaatga ggaggacctg 120
ccagaactgt cggacagcgg ggacgaggcc gcctgggagg atgaggacga tgcagatctc 180
ccccacggca agcagcagac cccctgcctg ttctgtaaca ggttattcac atctgctgaa 240
gaaacatttt cacactgtaa gtctgagcat cagtttaata ttgacagcat ggttcataaa 300
catggacttg aatttttatgg atacattaag ctaataantt ttattagact taagaatcct 360
acagttgagt acatgaattc catatacaac ccagtgcctt gggagaaaga agagtatttg 420
aagccagtat tagaagatga ctttttactt caatttgatg tagaagatct ttatgaaccg 480
gtgtcagtac ctttctcata cccaatgga ctcatgaaa atacatctgt tgttgaaaaa 540
ttgaaacata tggaag 556

```

<210> 1076

<211> 420

<212> DNA

<213> Homo sapiens

<400> 1076

```

aagccggaag ttgggggatg acagcagcat catgatgctg gctgtggagt gagcatgggg 60
ctggcgtcga ggccactctg cctcccatgg gtgggcccgc ttagctccyc ctctgcaaaa 120
tagggagctg ttgcaggaca ttccagagct actataagga ctgaaggagg ccccggggaa 180
aagagctctt gatataattaa ggcaactgctt agtagtgact atgcttactt tgcgagcagg 240
gaaaccgagg cctgggtagg acagaggggg gcacatgtgt ttactgccct ctccgcccc 300
gactttggtg ccacagcct ccacccctgt gcgcccgtca agaatttggc ttccacgttc 360
tgctccccgg accctcccag cctaacctgt ggatcctgcc acacaaagat gggcttacct 420

```

696

<210> 1077

<211> 736

<212> DNA

<213> Homo sapiens

<400> 1077

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gattcagtgt ctatttcctg aggaacccaa cttataacac gtagaataaa ctggccaaag 60
ttcttaattt tccaatttgt tgcaccagcc ccacgtgacc accaaaagct tttctgggtt 120
tccctttccc tcaggagaga cctcttcac agaccaagct tgatccttat tagtccatgt 180
ccagaatcag taaatgtccc tagaaaataa aatggccact tacctcagga ggactcctcc 240
ctctctggaa ttcccattca cctagtcctt attgctttca tagctctcac atatctttaa 300
atatgatctt tataattttt ccattctttt ctagttgttg caggcaaagt tttaggctgc 360
catgacctac tatatcctat ttagaagtgg aagtccttag agagattttc aaaattacag 420
atgtgtggat attagctttt ctcttaattt aattgaattg tggtagagaga aggtgttctg 480
tattattcaa atagcttaaa atttgctgaa atggggtttat aatcaaatat atgggtcaaat 540
ttaatagttc atgtactctt ataaatatgt attctcccat tgttggtatgc aatgcccttt 600
gtatgttcat gggatcaagt ttgttgactg ttttgtgtaa atctatatgc aaaatcttga 660
tttttgtcta cttgatctgc ttctgaaaga ggaacaataa aacttccac tgctacggtg 720
aaaaaaaaa aaaaaa 736
```

<210> 1078

<211> 899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<400> 1078

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aggngtggaa cgccgcagg taccgggtccg gaattcccgg gtcgaccac gcgtccgccc 60
acgcgttcgc tggtcggcta tccattcatt ctccatacag caactagagt cattctttta 120
aaattgcgga cctgatcctt ccatctccca gctgaacgct tttcatttgc ttctgttct 180
catgagtatg ccaaaatgta ttctgggcta ggaggccctg aggaatttgg tccttccctc 240
ctccccctc gttttctgtg ctctgccctc actggcttgc ctttcttttc cttaaataca 300
tcattgtctc tcctatttta gatccttttc ccgaaggta tggaaacatt atttctgtaa 360
gcttattctt ctatatagat gggaagtgtt taaatcagat aagggttctaa ggcatgtgg 420
acaatttacg ttatcatagt attgttcata acgtccatca ttattctgta gactgtaagg 480
gcttacttag ctcgtgtaag aattatcctt caaaaagcat ttttaaggta ttagtattgc 540
taatctataa actttgtgca agaagtccta aagtcaatag caacatttat ttaaagtaca 600
gtttgtcata cttaataaac ctctgggtata ttttcttta ttatgcttgt taåaaacaca 660
gtataaatgg gagaaatcat taaagatcat taactccaag gctgctggat gtaggaccc 720
ttaagcatat ttaaaagatt gattgtaatc aagaataact tgtatcagat tgccttccag 780
tgattcacat ttattagttc aaccagttac atacctgtag caagagacca gtttatttgg 840
caataaaatt ggggaaggaa tcaagactta aatgaggaaa aaaaaaaaaa aaaaaaaaaa 899
```

<210> 1079

<211> 2215

<212> DNA

697

<213> Homo sapiens

<400> 1079

```
tataaaagaa caaactggat gtggaaaggc tacttgtcca agggcacact gctgctagtg 60
atggagtcca aagttcacat ctgtctgcct ctggaacact catctaacta aagatgaaaa 120
caccgttctt catctttaac ctggcagaaa ctgctcacat gccttcaaaa gtgaaagctc 180
aactctacgc tcaagcatat gacctttata aggagattgt ctatttacia aaggagcacc 240
cagtgaattg gcacaagaac tatgccatcg cctgtgagcg gatgctgcgt cttcaggcaa 300
gagatgcaga tcctgaagtg ctgttatcgg aaaccatcag acatttccgt ctgtactctc 360
agaaagcacc gaatgaccca cagcaagctg atatttttagg tgctctaaag cacctaagaa 420
aagaactgca aagtctgaga aataggaaaa atgtctgaga cagcaaaaata tgaaaaacct 480
gctcatcggt cagcttccaa aattctgaag tctggaagtt tttccttcaa agaaaagaaa 540
ctgcataaaa aattttaaacc taagtcattc cccagatata agtatcatgg tccagcagta 600
ctgttttaatg ggggtattcag tgactaagggt ctgctattta tgcaaaattc tgtttatccc 660
gtgttaccaa attaccattt cagtgcagaag cttttgaaaa gtcttctgac ttccagtctt 720
tcaccagatg actgcactgg attagattct agaagagaat gaaccatttt catataacta 780
aatattgggtc atgaactgtg taagggccat gcttattggg atcagtttta aagttaaatt 840
cttttgatat taataccaga ccaaagacat tttctgtttc ctggaaaaaa aaaatgaatc 900
atgttaggct ttaggtgaga gtacattttt taciaaagtag ctatagttgt tacatagtct 960
tacacttcaa gctaaacacc aaatgggtga tattttgaaa aaagtttgtg ttttactgtc 1020
ttagatcggt cttggaaatc actaaaaaaa aaaaaagtta atttgatgtt tgcttatttc 1080
agttgcasaa actggcgagt aaaaaagatt ttgcatttac ttaattaatt ttatatttat 1140
gttttatttc tatttggtact cagagatcta gacccaattg tatagctcct agactccaag 1200
cactatatag gccctgtat agaaatgctc actaatgaag agggaggggt agaagcttgt 1260
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cacagttccg tggcattgta ctagcaaaaag ggtctgatca aaggtctcct gtggagcttg 1380
catggttccc tttcatacta cgaccataat taaaaccact aattctcttt taaaatgctg 1440
caggatgcca tgtaggcac tgtctggagt gtcctttgtg atgtcataag ctgttaagga 1500
ccagtgccga gggcttttga gtgaaatgcc agtcatgaag gtgcttcaag acaagggtgc 1560
ctctaaaagc ttgacagggc cttgactgca caattcgagc tgaatttgcc ccttgctcagc 1620
tgccagtaaa taaatctcaa agggggaaaa gctgaagttt cattacctga tccatggggc 1680
tttggttggt ttggcatcac acaggggaag ctcttgcccc tccattctct ggatttgaag 1740
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caatagttgt aacagttcag ctgttaggaa gacaaataaa tggaggagct cattaatccg 1860
cttttggtc tcagtgcctt ttgccccttt atcacagcct tattaggctc ctactcatct 1920
tgaaccagaa aaaaatgaat tgaagtgtgt gagtactaat tggcaaagac ttttaatcat 1980
gggccaagaa ctttactga cttgaaagta acttctccac aggggaaggac caaaaacctg 2040
gtttacctta aaacaaaaac ctgttgaggt tcagcgtggt gtaaaaatgt aaggaagcat 2100
tgataaattg tctaagttta tccatttgaa agaaattgtg taagattatg atattctctt 2160
ttcttttaaaa aaaaaagtac aataaaattc aaacattcct taggaaaaaa aaaaa 2215
```

<210> 1080

<211> 599

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

698

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<400> 1080

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acaaaagctg gagctccacc gcggtgncgn ccgctctaga actagtggat cccccgggct 60
gcaggaattc ggcacgagga gcctgcagga cacagtcaga agaaaggaaa agccattaac 120
attgggcagt tggtagatgt gaaggtttta gagaagacca aagatgggct ggaggtggct 180
gtcctgcccc acaacatccg tgctttcctc cccacatctc atctgtcggg ccacgttgcc 240
aacggcccat tgttacatca ttggctccag gcaggtgaca tccttcaccg agtcctgtgt 300
ctgagccaga gcgaggggag tggtctctct tgcaggaagc cagccttggt ctccacagta 360
gaaggtggcc aggntcccaa gaacttctca gaaatccatc ctggaatgct gctcattggg 420
tttgtgaaga gcatcaagga ctatggcgtg ttcattccag tcccctcagg tcttagcgga 480
ctggcccaaa aagctatcat gaggacaaa tttgtgacct ccacaagtga ccactttgtt 540
gagggccaga cagtagcggc aaaggtgacc aatgtggatg aggagaagca gcggatgct 599
```

<210> 1081

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<400> 1081

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ggaaatttga attgaatctg aacaggaaat gaggcagtt gcttgccact taagaaatga 60
aattaacctt ttccgaatat cttttgaaat ctgcgttttg atgatgctga agctttggat 120
tatacatatt cttatttcga taagggtgcac ctaagtctct tcatctcacc agtattcttt 180
tgctatcaaa ggcagttgat cagttttgtt cctcaatatt ttttttgcaa atatctaccg 240
aagttttttc aaattttatg taaaatgcaa gtcattgtag agatgccagt ctatgccttt 300
atgcttgcca gtctcaatta agacttgatt gagctgcagt actttaaaaa ggattagaag 360
agctattgaa tgacttaatt tattagaagt ttttaagtga cagcatttct aattattcaa 420
gtgcatttat ttttcatgaa aaaaggtaga atgatttgtt ctgacataaa gtaaatagtg 480
ttgatgcatt agaaattgtg tgtcttgatt atgatttctg tactttttgc attagaagta 540
taatggactt gtatttttaa atagttgaaa ctagcactgt gatcatatta aataatgcat 600
tycycagttt gggacctnca gatagggntt ccattgttga aa 642
```

<210> 1082

699

<211> 570

<212> DNA

<213> Homo sapiens

<400> 1082

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gtgtttctgag taacagtcag tgtataaaag gggattgcag aaaaaaatga gggcttgctt 60
tactcaacag aaaatatggc cttcctgaa tgacactagg agagtcattt tatctcatatc 120
attcccttca tttcggttgg ggacatttgt tgaaaccggc actcaatggg caaacctgtc 180
gtgccctcca gttgctgaca gtcctgcagg aagatggaca agaggcccag tgctgacagt 240
cacacgactc tcactacttg aatgagggga ctgtgggtgc aactagaaaa tatgttgatt 300
cttagccatt cccaccttgc ctctccgttc agaaccctcag ctgagagctg tttgtttccc 360
tgcctggaaa tgatgtttta ggcaggttcc ttaattttctc aggtctgtct cagataataa 420
aaagctcttt gtatgagcct cagaactgtc tcttcagtga atgaaattac cagtcattat 480
acgaagggac tttaaaaaat ttgtggaaat actgaagtaa aagatgataa aaaaataaaa 540
amwttatyt c ttggctggga aaaaaaaaaa 570
```

<210> 1083

<211> 675

<212> DNA

<213> Homo sapiens

<400> 1083

```
cccttccagt catgaaactt catttgtttt atccatatcc ctgaggactg tgtagacttt 60
atgtcagttc tgtttagact ttatgycagt ttttgtcatt atttgaaaat ctattctgac 120
aactttttaa ttcctttgat cttataagtt aaagctgtaa caactgaaat tgcatggatc 180
aagtaagcat agttttatcc agggagaaaa ataaaaggaa gccatagaat tgctctggtc 240
aaaaccaagc acaccatagc cttactgaa tatttaggaa atctgcctaa tctgcttata 300
tttgggtgtt gttttttgac tgttgggctt tgggaagatg ttatttatga ccaatatctg 360
ccagtaacgc tgtttatctc acttgctttg aaagccaatg ggggaaaaaa atccatgaaa 420
aaaaaaagat tgataaagta gatgattttg tttgtatccc taccatctc ctggcagccc 480
tactgagtga aattgggata catttggttg tcagaaatta taccgagtct actgggtata 540
acatgtctca cttggaaagc tagtactttt aaatgggtgc caaagggtcaa ctgtaatgag 600
ataattatcc ctgctgtgtt ccatgtcaga ctttgagctg atcctgaata ataaagcctt 660
ttaccttaaa aaaaaa 675
```

<210> 1084

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

700

<221> misc feature
<222> (620)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (626)
<223> n equals a,t,g, or c

<400> 1084
gccccggtgg ccgactatct gacctcacag ttctatgccc tcaactacag cctccggcag 60
cgcatggaca tcctggatgt aagtgcctcc tgggcctcag tccccctggt ctggcccaag 120
ctgccctaag gtggggctgc caaaacctgg gtctccttgt tgctgggccc caagggtcgc 180
tgcaggcctg tccactgcct tcgtgagtgt gtgacccggc aggactcagc agtgggggag 240
tcagggtcct cggggcagag agttttgttt gtttaaaata acagctttac tgatataatt 300
cacacgccat aaaattcacc gcttttaggt aaaatgtgtg ctgcgaggt gaggaatat 360
tatttagcaa wraaaaaaaa aaagggcggc cgctctagag gatccaagct tacgtacgcg 420
tgcattgcac gtcattagct ttctatagtg tcacctaaat tcaattcact ggccgtcgtt 480
ttacaacgtc gtgactggga aaacctggc gttaccaaac ttaatcgct tgcanacat 540
ccccctttcg ccagctggcg taatagcgaa gagggccgna ccgatcgccc ttcccacag 600
ttgcgcaagc ctgaatggcn aatggnac 628

<210> 1085
<211> 1356
<212> DNA
<213> Homo sapiens

<400> 1085
tcgacccacg cgtccggttt tttatgcayt wgagtcttgg atcaagtayg atgtacaaga 60
acgycagaaa tacttagcac agytactwaa yagtgtmga ttaccattgy tgagtgttaa 120
gtttctcact agactatatg aagcaaatca tcttattcgt gatgatcgca cttgtaaaaca 180
tcttttgaat gaagccctaa agtaccactt tatgcctgaa catagactct ctcatcagac 240
agtcttgatg acacgacctc gctgtgctcc caaagtactt tgtgcagtag gagggaaatc 300
tggactcttt gcctgttttg atagtgtgga gatgtacttt cctcagaatg actcttggat 360
tggtttggca cccctaaaca ttctcgcta tgaatttggga atatgctgtt tagacaaaa 420
agtatatgtt ataggtggtg ttgcaactaa tgtgcgtcct ggcgtcacta tcagaaaaaca 480
tgaaaattca gtggaatgct ggaatcctga tacaataact tggacttctc tagagagaat 540
gaatgaaagc cgaagtactc ttggagtagt agtacttgca ggagaacttt atgccttagg 600
tggttatgat ggacaatctt atttacaatc tgtagagaag tacattccca aaataagaaa 660
atggcaacct gtggcaccaa tgacgacaac aagaagttgt tttgctgcag cggatttga 720
tggaatgata tatgccattg gtgggtatgg tcctgcccac atgaacagtg tggagcgtta 780
tgatccaagt aaggactcct gggagatggg tgcattccatg gcagataaaa ggattcactt 840
tggcggtgggt gtcattgctag gctttatttt tgtggtgggt ggacataatg gagtctcaca 900
tttgtccagc attgaaagat acgatcctca tcaaaatcag tggactgtgt gtagaccaat 960
gaaagaacct agaacaggag ttggtgctgc tgtaatcgat aactaccttt atgtcgtcgg 1020
tggtcactca gggctcttct atctgaatac agtgcagaaa tatgatccta tctcagatac 1080
gtggctggat tcagctggca tgatatactg tcgctgcaac tttgggttaa ctgcactttg 1140
acaaatgtga actctcggaa atagtatggg ggtgaaactt gtactgcatt aacatccgga 1200
tggcccgatt ttctgaaacc cacaagctgc attgctttct ttttaacttg aagtagcatg 1260
aaggctcaaa agttttgttg ggtactttta attgagaagt agttttggtt gctcttgatt 1320
acacagtaaa tcaataatca aaaaaaaaaa aaaaaa 1356

701

<210> 1086
<211> 703
<212> DNA
<213> Homo sapiens

<400> 1086
gcaaacattg gacatctctg acatattttt tctcgttttc agcttttcgg atgataccctt 60
atcccttgga aaaggggcac ctattttatc cttaccaat ctgtacagaa acagcagacc 120
gagagctgct tccatctttc catgaagtct cagtttacct aaagaaggag cttcccttct 180
ttattctctt tactgctgga ttatgttcct tcacagccat gctggccctc ctgacacatc 240
agttcccgga acttatgggg gtcttcgcaa aagctatgat tgacattttc tgctcggcag 300
agttcaggga ctggaattgc aagagtattt tcatgcgtgt tgaagatgaa ctggaaatcc 360
ctccggcacc tcaatctcaa catttccaaa actgaactca tcacccctct tccccacca 420
ccaaaactgc tctctctct gtattcctra cctccgccat ccaccccggt gctcaagcsg 480
gaaactcggc agcccttcca aactcttccc tctctcactc cccacatccc atcgtctcgg 540
ccttcacaat ctgtcagttc taacctccta agcaactagg ccttcagtaa atgtgattca 600
cctcttcttt cctctctttt cccaaaagca tccctcttag tctaggctct ttgttggttt 660
cttggttga acttctggcc ataagtctta acttggggct ccc 703

<210> 1087
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<400> 1087
agccaaagtg ctggaattac aggtgtaagc caccacaccc agcaataaag cattttaatt 60
tgcttctatt gagacaatac cctagaagtt ttgcagtggc agtgtgatga ccaatgaggt 120
ttatctgagg tgcgattatt gctaattgaa gcagtgcctt ggaggtaact gaattcctta 180
tcagtttcat acaatttcag ggcttgattt tttatagggt acccagacaa ttcattcaag 240
ggctgcttta cttacgggtc acatgtcatg taaggagcag tggttttgag cataaactct 300
attcctggga tttatcagat accccacttt tgacaggtct tggatttcac ttttcagatc 360
cttttttagga ttggcaaatc gctttcttca ctgtccctct agccaaggac aaaaaagtga 420
ttccaacttc cccagcantt ttgggnaagc ccaaggcaga agggtttttt ttanggcc 479

<210> 1088

702

<211> 442

<212> DNA

<213> Homo sapiens

<400> 1088

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tcaggccttc cctaacgctc caagcaccgc tggagccatt taatgggtga gggaacttgg 60
gtaagaggaa gatcaccccc ttctgtccc ctttctaggc cccctcaagt gcaggtgacc 120
cttaattggg gagatcttca gcctcagccg ccgacctttc cttttgtcc agttttggar 180
ttcccgtttt ttcttggtt gctttcmgag tgtaaggctt ggccgggtgag aaagatttcc 240
cccaaccttg attaatacag cccctcccc aacttacttc cttaggacg ggtagggtcg 300
agggacctcc tctcctggaa agtgcttact ttgcctgggg aaggggctag acactgtccc 360
agggaaaagta atagaagggtg gaagaaatca ataaaatcag accaggacgg agggaaaaaa 420
aaaaaaaaaa aaaggggggg gg 442
```

<210> 1089

<211> 1074

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1055)

<223> n equals a,t,g, or c

<400> 1089

```
gcactcttta catctttcat ataataagagt cactagcttc tgtaccaatt tcttgtcttt 60
agtgtacttt ggtaaagttt tataattaaa gcacatttct atcttgaagt taccatccaa 120
ggtggtttct ggatgctagt ttaatgattt aaacactagt ggctcactaa ttcactagat 180
agtttttgtt ctgttttctt tttgctgcct gtttttattt ttataattac attggcatga 240
atttccactt ttcaatcttc taaggaatat ttgagatttt tgctttttaa acttaatat 300
tccttttaaaa ttctggaact tcttaagttg acattttaat ttttttaaat taaattctgt 360
agtgtcttta cagaaccgaa tattcttaat gtaagtataa gcattacaaa tccttgtaga 420
ataaatatth tttagcattgt tacgaagggt aaaaactggg ttttggtcac ttacatgtct 480
taaaattgcc ttaaaatgaa tacagaaatt tatatggcag cttctagtac agttgactgc 540
tttaacatgg cctgacatct agtgatatth ttctctctt caaatttctg ttttctagct 600
cttaaatatc tgtttctcat tcttataaat caagatgctt gtagtatata attctgagac 660
taattatctg cttttgaatt ttttccactg caattcataa aatgtgaaga tctgtgaaaa 720
tgctatggga aaactagctt ggggttcaaaa tatcttaacc aaatataccc tgtaggcttc 780
ccaagagtga ctgtctgaca gttggtgact gtagaagaag ctgggtgggt gttttctggg 840
ccaaggaaat ttaaaatgtc tgcaatgtta tccatcatta ctttytgctg tcagaaggga 900
tggcagattg aagcttttct ccctatcgca ttttcagagt tgccgtgtca gagcttcacc 960
ttgggtaagg aaagatgggc aggaattctg ggaaacagaa ctcctgagac ctacctctgc 1020
ctgcctaaaa atgtggactg actcagtatg agatnataac aagaaaacat ttaa 1074
```

<210> 1090

<211> 1163

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

703

<222> (159)

<223> n equals a,t,g, or c

<400> 1090

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actgccccaa gctcaaggag atcaatttcc gtgggaacaa gctgaggag aagcgcttgg 60
agaagatggt cagcggctgc cagaccagat ccatacctgga gtacctgcgc gtcggaggcc 120
gtggtggcgg gaaagggcaa gggccgtgcg agggctcgna gaaggaagag agccggagaa 180
gaggaggag aggaagcaga ggcgggaagg tggatgatggg gargagcagg acgtgggaga 240
tgccggccgg ctgctgctca gggtcctgca cgtctctgaa aaccccgta cttctgacagt 300
cagagtgagc cccgaggtcc gggatgtgcg gccctacatt gtgggggccc tgggtgcgagg 360
catggacctg cagccaggga atgcactcaa gcgcttccctc acctcgaga ccaagctcca 420
cgaagatctc tgtgagaaga ggacggctgc cacccttgcc acccacgagc tccgtgccgt 480
caaagggccc ctgctgtact gcgcccggcc cccacaggac ctcaagattg tccccttggg 540
gcggaagaa gccaaggcca aggagctggt gcggcagctg cagctggagg ccgaggagca 600
gaggaagcag aagaagcggc agagtgtgtc gggcctgcac agataccttc acttgctgga 660
tggaatatgaa aattaccctg gtcttgtgga tgcagacggg gatgtgattt ccttcccacc 720
aataaccaac agtgagaaga caaagggttaa gaaaacgact tctgatttgt ttttggaagt 780
aacaagtgcc accagtctgc agatttgcaa ggatgtcatg gatgccctca ttctgaaaat 840
ggcagaaatg aaaaagtaca ctttagaaaa taaagaggaa ggatcactct cagatactga 900
agccgatgca gtctctggac aacttccaga tcccacaacg aatcccagtg ctggaaagga 960
cgggccctcc cttctggtgg tggagcaggt ccgggtggtg gatctggaag ggagcctgaa 1020
ggtggtgtac ccgtccaagg ccgacctggc cactgcccct ccccacgtga ctgtcgtgcs 1080
ctgacscag ggcgcctgt ccgcgtttgt ttggccggtt ttgcggaggt ttctatgcgg 1140
caatgctgaa ttatccgtta gat 1163
```

<210> 1091

<211> 771

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

704

<221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<400> 1091

```

agcnaganan ccaaccctca ctaaagggaa caaaagctgg agctccaccg cgggtgncgnc 60
cgctctagaa ctagtggatc ccccgggctg caggaattcg gcacgagatt ttgagcattc 120
ctctgatatt tgaaaaggaa gtacaacagg aaaggaagtc tgaggatgga agctaaaatt 180
ggtatgaatt tatatttttag agatcaaaat gtaccttatg ttgaaaccta tgtaagaagt 240
gatwatgtag aaagagtga aagtatagct cttagtctgg aaagcccact ggcttgtttg 300
ggcattttctc atggcttccc actcaaagtg gatcccaaaa atcacttgat ggatttcctt 360
gctgattttct aagtaaaacta tggtttaaga aagaaatgac agggctcagc actgccctac 420
agtaccaaga atacaaatgt ttccatgaag tcttcaaagg catttgtaaa attcaggctg 480
taagtgatta gttagtccat tctgcactta tttattaact gtatattcag ttccaggctc 540
tagggtagag attatggata aaggtgaatt agatagatga agtttttgcc ctcacagcaa 600
aagcttttagc caataattaa agctatcact ggaagtgggt ctgtgccaat aacctagaga 660
agagcagtg c ttttagagtt gagctatatt cccaatcagt tcttaatggt ggttttacct 720
ccttccctct acactgtctt ttcttgagat tggatcatgt gtgtgaacct a 771

```

<210> 1092

<211> 757

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<400> 1092

```

taggaaatca actgagtggg tgtttggaag aggaaggagc aactctcggg cagcctgccc 60
aagggaggga gcaagttgca atttanaaga tgccatacgt cgtgtgacag ctcattgagcc 120
tttactcggg ctggcaattg tctgaacact tgggttcagt tgaaatatat gtattttggc 180
caaaagccaa gcagcmcttc acaaaaacaa aacacaamcc taagctaaca aaatgmctgc 240
attcgtctct tttttaaagg tagagattaa actgtataga cagcataggg atgaaaggaa 300
ccaagcgttt ctgtgggatt gagactggta cgtgtacgat gaacctgctg ctttgttttc 360
tgagaagagg tttgaagaca ttttattaac agcttaattt ttctctttta ctccatagga 420
acttatttta atagtaacat taacaacaag aatactaaga ctgtttggga attttaaaaa 480
gctactagtg agaaaccaa tgatagggtg tagagcctga tgactccaaa caaagccatc 540
acccgcattc ttctccttc ttctgggtgt acagctccaa gggcccttca ccttcattgtc 600
tgaaatggaa ctttggtttt ttcagtggaa gaatatgttg aaggtttcat tttgttctag 660
aaaaaaaaaa tccctcccaa agtggggcaa aaagctttat atttatttga ttatccaaaa 720
tacagatcaa agtttagatc taaaaaaaaa aaaaaaa 757

```

<210> 1093

<211> 633

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

705

<222> (619)

<223> n equals a,t,g, or c

<400> 1093

```
gcaagactct atctcaaaaa taaaataaaa taaaataaaa taaaataatt aataaaatgg 60
tgtagtattt gcatataacc tatgcacatt ctcccatata gtttaatcat ctttagatac 120
ttataatgcc taatacaatg taaatgctat gttaaatagtt gttgttatac tgtattgttt 180
aggggaataac aataagaaaa acagtctgta catgttcact acagatgcaa ccattgttaa 240
gcctgactac atcttttttat ctgcagttga ttgaatctat ggatgtggaa cctgtgcata 300
tggagggtca actgtactat aaataatacg aatatgccaa cattatataa tcattgcttt 360
ctgcaactgt ttactataat ttcaaaatta atatcctatt aactgttcct ataaattatc 420
aaatttggca agtgtattac tagcaggaga tggaccttaa attatgacaa ctttatattt 480
tttgatagca tctcttgaaa aagaatttta atgattctaa taagagggtc tttttctttt 540
ttccatttcc ttgacaaata gtactcattt aaaaactaga gggctaggct tagtgggtca 600
cgcctgtaat ctcagcacnt ttgggaaggc tga 633
```

<210> 1094

<211> 548

<212> DNA

<213> Homo sapiens

<400> 1094

```
gtcgggggaca cattccaaga ggctaaaaag caaatttctg tacattagga gatttgtgag 60
tccttaggaa aggctcagaa gagggtccca cctagcacia tacctgacat agaaagtggg 120
cagtgtctgc agaataagtc ggcatagaac gtactttcct tggcagggtt attagggtgg 180
aaataacctgc agaataatgg gattgtacta gggtttcttc tggctttaga aaccatttg 240
tttactaata gattcccaga ggataccttg atctcaccaa gctatttgcc agaatgtctc 300
ctgatggcct cattgaagaa aggggggacta tgagccagat gctgggtgcc tgaagatttg 360
tagtttgtgg gatagtctta acttggcagg gtttgattaa cagaatgaag tctgttcctt 420
agagggaagt ctttgcttgc tgccctgacc tgctggacac tgtaatttg gatgaggtca 480
aagaaggcat agttaccaca tttgcaggag accctaacct ggaaatagta aattacataa 540
cattcaaa 548
```

<210> 1095

<211> 860

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

706

<223> n equals a,t,g, or c

<400> 1095

```

cagtgaacaa aattatTTTT tttaaagcaca taatccctag tatagtcaga tatatTTtAtc 60
acatagagca actaggttgc aaatatagtt cagtgcatt tctagagaaa cTTTTtctac 120
tcccataggc tcttcaaagc atggaacttt tatacaacag aaatgttgac agaaattgct 180
gtagtttagg gttgaagtac tgtatgatgg gcagcaatca tgtattaact tagaagggga 240
aattgaaata taggaccgaa tttggTTTTa tcagtttcca gagtactgct gccaacctag 300
acactgattt ttcagagttt gaaatgtaaa tttcttcccg ggacttgatt gcacatgaag 360
ctggactgcg ttagtcatcc tgtcccaaag cgctgtgggg gccaggggtg aggtctcaag 420
gcattccttta tgacctggcc attggatgta aaagaaaaca tattccatgc tgtggTTctt 480
gtatcttggt tcatctctca ccattgaaag agaaagtcca tgtattgtct ccagcacatc 540
cttraaatgt tatactggga tggattactg atgcccacgc gtagttgagc cccagaagag 600
ggtagtagca tctctgcctc aggtgatgat ttgtancttg gccagaggag agcggagtca 660
ccagtatatc tgtggtccat gttgctagct ctggtaaaat taaaaatctg gtaagatggt 720
tgtatcatta gtacactaga cagtaagctc tgtcttgntg ttttcaanta acctatattc 780
acttttgttt gggcaaagac atttaaattg aaattcaatt ctaatttttg ttaattgtgg 840
aaaggggtaa ttaacagatc                                     860

```

<210> 1096

<211> 1754

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1543)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1694)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1738)

<223> n equals a,t,g, or c

<400> 1096

```

ggagaaattg attcttcttc tctctttgcc aggaatagac atcaatgnta aagacaatgc 60

```

707

```

tggctggacg cctttgcatg aagcctgtaa ctatggcaac acagtgtgtg tccaggaaat 120
tttgcaacgt tgtccagagg tagatctgct cactcaagtg gacggggtga ctcctttgca 180
tgatgcactg tcaaacggac atgtagaaat tggcaagctg ctactacagc atggggggccc 240
agtgtcttta caacagagga atgctaaggg agaattgccc ttggattatg tggtttcacc 300
tcaaatacaa gaagaactgy ttgctattac aaaaatasaa gatacagtgg agaactttca 360
tgcacaagca gagaaacatt ttcattacca gcaacttgaa tttggctcct ttttacttag 420
taggatgttg ctaaattttt gttcaatttt tgatttatct tcagagttca ttttagcttc 480
caaagggtta actcatctaa atgaactgct tatggcttgt aaaagtcata aagaaaccac 540
cagtgttcat actgactggt tactggatct ttatgctgga aatataaaga cattgcagaa 600
actcccacac attcttaagg aactgcctga gaatttgaaa gtgtgtcctg gggtagacac 660
tgaggccttg atgataacat tggaaatgat gtgtcgtgca gtcattggag tttcatgatg 720
atgctagaaa gtatggattg actttctaaa tctgttcagt ttgcattggt acttactgtg 780
gacttcatag cttactgaca gatagtaatt tgatttatct attgacagac tttgcagcct 840
tgctaaattt taaaagcatt tttaaaaaaa cttctacaaa actctagtat gggcttctga 900
ctttttccag ggtgtagaat ttgactcaaa agtaaaaaata attttgtttt agtatattct 960
actttcatta atgttttttt gttctgaaag tgatattata ttgtacatgt aaaattaatt 1020
taaataattt ttcaaataaa aatgtaattg cctgtattct agatgttcta ggtcttagaa 1080
tcatggcaag catattcata caaatgcgta cctataaact ttagctcctt gactcttagg 1140
gatggatttt gagggaaaaa caagactaaa caaaaacatg tagctcccta tttcttctct 1200
ctaggttgtt ggactgaaat atgcatttta gctttgtgtg tttctaaaaa aaacatttct 1260
aaaattttaca gtaataatta atattctttt ggttttttaa tgcagcaaat atgcagagtc 1320
tgacagttca attccttgat ctgttttatt ttagcaattc atatacaaaa tgtatctgtc 1380
gctgccctat gtaaccacgt attctgtacc tgaaaacatt ctgctgcata ggtttatgag 1440
tttaatatata agatatttgag tggcataagt aatagatttg agattattta agatcttaat 1500
atatagtatg aatttactga gtagtaattg tttaatttgc agnttttctt tatagcagtt 1560
tgtagtaaaa ctaaaagaaa gggngtggat aataaccact tttgagattg gagtttcttc 1620
actactggga gtaagttaca ttatgatata ggtggaaaat aaacacttcc atttagcttt 1680
tatgtaattc aagngatgac ctttagcagtt aatctgctaa agcaatacac ttcagttnta 1740
ttttggaaat agat 1754

```

<210> 1097

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (765)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 1097

708

```

aggattattc cttctcatct gctgcaatgg gtcaatgtgt taaggagagg agcgagacag 60
caagaaccgc attcattcag tcatacagrc caaaaggagg aatgtcgccc agccctctaa 120
actgacccag aaccagatc atgtytcaac tgctacctct cctacttaga aagaagtaac 180
tccaccaaag cagggttctg ggacaaatat ttttttattg atcatataca aatagatgaa 240
ggatggactt ggatgttaag aaaaataata ctatacaaaa tcgagagtag acagttgccc 300
ctagacttaa attaaaagtg tgcacattag ataatttaat ccaatgtatc aggtaaaaac 360
ttgaacaaac cttttggcct cttccttaaa attcagggaa gcatgtcctc cacaaaacag 420
aatcaaaata taaataaaag actgccttaa gacgaaagga aaccttacag atgaaaagaa 480
gccagatgag aggcacttaa ctaagaatga aaagaaactg agtggacaaa ataattatga 540
gaagatgaac cttcaaata gaaagaggga aaaaagctta tttgatacta tgggaactca 600
aaagagagtg aacacaaatg tgaaaattcc aagagtgaag aaaagtatca taactacatt 660
tagagcatga gaaaaagtat acaattttga gtaataagaa cagaaatcaa aagtaactat 720
tgtatgctgt atttttagtag agcaacmctg aagaagaaag gaaancanga anta 774

```

<210> 1098

<211> 164

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<400> 1098

```

aattcggcag agctgtcacc caggctggag tgttgtggca caatcttggc ttattgcagc 60
ctcaattcct gggcttaaag agtcctccca cctcagcctc ctgggtagcc ggaactacag 120
tcacggcact tccatgtccg gataattttt tttttttttt tnag 164

```

<210> 1099

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<400> 1099

```

ggcagctaag acttcagtaa aattgggggt ggggggaggg ttgacatttt ccgactgcct 60

```

709

```

gttacgtgcc aagtgccttt tgtaaggac ataatgtttt tractgggga tcatgtttgg 120
ctgatgtaaa tattaatgcc aaaataggag ctaggatgaa agtaacactg taattagtag 180
tagaatttat ttcataattaa aatgtgtcat gacgtaattt ttatggcttg gctcaagcaa 240
caattttcag agtgcacgta agtatcaacg cgtaaaactt aacattttac agtgttattt 300
gggtattattc tctatgaagc tgtctggatc ggtctccttt tcccattggg taattgggta 360
atgctcagat tttggctcct agaatcgatc tgtgtgttcc cggctctggc atctcattat 420
gtcatttgct gkattttttg atatattatt gtacgtgcaa attgargtga awttgtttgt 480
ttagattaag actgttggga ctcaagctac aacgaggtgt ctctggnggt aaaaaaactg 540
gcagttttaa gatttgggta aatccccnnc cccggg 576

```

<210> 1100

<211> 829

<212> DNA

<213> Homo sapiens

<400> 1100

```

aaaaaaaaaa aaaaaaaaga atatccctgt ggcaatagtc tgatgggtgt tggacacaag 60
aaaagttatg gttttgagtc gtgagtgttt gctagggcat ggcactcttc agtttaacag 120
ctgatccatt aaaccttttc tgacatttgt gccttgttct catgctagaa ttaatgctgg 180
atttttctct catttgacca tcaatgtagt ttactttatt gaaaggaaaa aagacttaac 240
acaagatagg aaagatgagt atgagaagta aaacattctg ctgggggtgt acatagaagg 300
ttaggttgta ggggctttga ttttaattta aacttattat cgattgatat ttctgtatct 360
cactaaatgc ggttgaagag tgtgtgtgtg tgtgygcgcg cgcgcatgtg gccaaaaaat 420
agtgccataa tgtcaaattc ttcttttgcg ctgtttttga gaggttgatga catcaggcac 480
ttttcagtgt ttggggaaat tgattgggat acctcccca aaccaactca agtctgtaac 540
tggaagccag gtggttggtt ttctgggtcg ctttgctctc tttcttttac cgtcaccta 600
ttcaccagca cttaatgtaa gtagatgttt tagaattgca atattttattg gtttagtatt 660
tgtcatcctt agaaatgtta atgatgtatt tttatattga taatataaat ttrtgtagag 720
tatgtgtgta tatgtatttc aggatgttat agtattgtac ttgtgatgtg atgggtttttg 780
tgtcttcata ataaatatgt ccctttttaa aaaaaaaaaa aaaaaattc 829

```

<210> 1101

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 1101

```

gcgggagtgcc gccacgccgc gcgtggggct gtgggtggccg cggctctcag atatattttt 60
gccatcatgg atcagttttg agatatatta gaaggtgaag tggaccattc tttctttgac 120
agtgactttg aagaaggaaa gaaatgtgaa ctaactcakt ttttgacaag caaaatgatg 180
acccaaagga aagaatagat aaagatacaa aaaatgtaaa ttcgaacact ggaatgcaaa 240
caacagaaaa ttatcttact gagaagggaa atgaaagaaa cgtgaaattt ccccagaac 300
acctgtaga gaatgatgtt acacaaactg taagttcttt ctcatgcca gcctcttcaa 360
gatcaaaaaa attgtgtgat gttacaacag gacttaaaat acacgtgtcc attccaaata 420
gaattcccaa aattgtaaaa gaaggtgaag atgattacta cacagatgga gaggaaagca 480
gtgatgatgg gaagaaatac catgtgaagt ccaagtcgcg taaaccatct actaacgtta 540
aaaaaagcat aaggaaaaag tattgcaaa gtagctctc ttcctcctcc tctttatctt 600
ctcatcttc aggttcaggt acagattgtt tagatgcagg gtctgatagc catctatctg 660
attcgtctcc gtcattctaa tcattctaaga aacatgtatc tgggtataacc ctctgtcac 720
caaaacacaa gtataaatca ggaataaaat cgacagaaac acagccttca agtactacac 780
caaaatgtgg ccactaccct gaggagtctg aagatactgt gactgacgta agtcccttat 840

```

710

caactccaga cattagccct cttcagtcct ttgaactggg catagcaaat gatcaaaaaag 900
 tgaaaattaa aaagcaagaa aatgtgagcc aagaaatata tgaagatgtt gaggatttga 960
 aaaataattc aaaatatttg aaagcagcca aaaaagggga agaaaacttg ggccctgttgt 1020

<210> 1102

<211> 593

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 1102

aaattctcaa atatgggaga aattttnttc ttgagaatta tctgagtcac taatattttt 60
 caaaaacagc tctcactgac ttgaacctct tctgtaagct ctaacctttt acctgcttta 120
 catttccact tgaatgtcta gtaggcacct cttgaccaa aacagctttt gattcctgtt 180
 ctccaacctg ttccctctct agttttctcc atctcagaaa tgttacttcc tctgcaaagt 240
 ctttccctga cttatctaaa ataataacct cctctgtttg ctgtgggaat ttgtatagaa 300
 tgggtgggaaa atttcaagtt tcatatttgg attagctctg acatttattt atctgaacac 360
 tggtaattgc ctcagtaaag acactgataa taagtacctt ttagagttat tttaatcttt 420
 aatgctttta tgtgtaggaa gagtatagtg tcctgttttg cacagaaagg cattctgtaa 480
 ataataagtt gccttaattt tcctgtaatg ttcattatat tgttgtggga aggtattttac 540
 tcctattatt aaaaataaaa atgtgtaaaa tttaaaataa caaaaaaaaa aaa 593

<210> 1103

<211> 1429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 1103

tgnccaggta actttacact tacaatgaat tcatggattt tgtagcagc attggctttc 60
 tcaaaaggac aaactcaata tcgttataaa atataattcg tgatcacaaa ttatacaaaa 120
 atcagtagaa acagtttttt atgttcagat taaaaaaaaa aacttgggat aattttarat 180
 ttacaranaa gttgcaaaga tacatggaga gtttctgtga ccaactcacc agttccccca 240
 gtgttaacct tttatttaac catgaagcat ttgtcagaag ctaagtaacc agcaatggca 300
 attactatta acggaacttt gactttattt ttcagattgt actagttttt taattaatgt 360
 cattttttctt ttccaggatc caatctagga taccacactg aattagtcgt catgcctaata 420
 tagcctctgg tctgtgatag ttccacagtc tttctttttc ataaccttga cagtttttgag 480
 gagtactggg caggtgtttt gtagaatatt cctcaatttg ggtttgtctg atgttttctc 540
 catgggttaga gtgggggttat agatttttag gaagaatacc agagggtgaag gtccttctca 600
 ctgcatcatg tcaggagtta catgctatca gcttgatggg gtatttaact tggacacttg 660
 gttaaggtag tgtgtgttgg ttttttctg ctgaaaatta ctgttatttt ccccttccat 720
 acttctgttc tttggaaaac agtcaactaag tccagtcatg ggagggtggg ggtgggaaag 780
 attacattca accccctgga agtggggaata tccatatgta gtatttggaa tttttctata 840

711

```

tggaaaattt gtttctccct cccaccctaa tttgtttaca tcagtatgga ctcattgtata 900
ttttgtattt tgggtaacac agtattttatt ttgttgctta agttgtccag cttggctatt 960
aggagttctg ccaggttggc tactatgtcc ctttgatgtg cccatccttt tgatttttga 1020
gcacttctta ctttctggca ctacaagatg ctccagggtc atcttggata ttccctgccc 1080
caaccctaga atccctagaa tcaacccctg ctccaaagag ccctgggttc ttttgttga 1140
gaatcatact tagaaaccaa gatctgggca ttagatgtgc ttgttgctac tgggatgtca 1200
ctgtttgtag cagagttgag aaatatgtat gtatattaat ccatgcatat gtacacatct 1260
ataattattt atgtgtgtac aaagctaaac atgagtttgt actgccgtct tcaactcaaa 1320
atttgtccca aaattttgtg gcatatgttt agatttttaa gttgatattt tccctattga 1380
cagaataaac tcattaaaag agcaaaaaaa aaaaaaaaaa aaaaaaatt 1429

```

<210> 1104

<211> 727

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (709)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (716)

<223> n equals a,t,g, or c

<400> 1104

```

ngttgagtta tttagaattt tatctcaagt gaaagctgat ggattcatct gctttggctg 60
aaattaaact tatcattagt ctagctagca tttcagcatg atattgcaag cacttctcat 120
tgctaaaaat aaataaacca aagtttaacc gaatcagtta gggaaagtga tttaaacttt 180
atttaaagag gtatttttcta attatgcaca gatatctact ttatacaaat acttttatatg 240

```

712

```

gctatttttg agaaaaccct cacattttta tgtttatgct agggatgaac ctgaaaattc 300
tattacgttt atttagattt caaaggcaaa tattgattcc tatgctctgt ggtttatttc 360
ttttttctat tgcttctttc tcccttgagt cccttgaagg cagggaatag acttctagaa 420
aacctgagag gaaaaagaat tctttttaca ggaggcagca gaaaactgtc tgaaaggtca 480
attgttttat ctcccttttc actctctttc caatttgggn tttggtggtc tgaagaagaa 540
aaagaaattt tatgtatgta tgtgtaaata tgtgtatata tttctatctc ttgctacaat 600
aattccaact aagtgaactt ctcaattatc atcatactta cttaccttat attaacanat 660
taagatgatg ctgccaaaac aagtctagca gggaaaacag gttctacant tttngnaaat 720
aaattaa

```

<210> 1105

<211> 605

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 1105

```

atgtctgcag tatanatagc atagacattt ggtgtgaagg gaggagaaag gaagtagtag 60
ttctgagaat attcatttga acagagtgc tatggaagaa tgaatagcaa aaaaaggaga 120
atTTTTTTaa aaagatctct cactgggaaa agaaaaagtt atgcatttat aaagtaatta 180
aactggTTTT ccttgtactt tattaatctg aatctaattg cacttcctta cgagggtttt 240
cagatgtgct tgtagttaat ggcaacatta tcagaatgac tacacagaca gtccactct 300
gaggagatga ctttgggaaga aaccatttg gaactacaca ccctgctatg tctgtggaga 360
aatggaactg caatcctcaa gagtcacact tcatattcct tcctttcaag tggttgataa 420
aaggtagtgc ttcaagcaca ggatttatgg aatagttggc aaattaaaca acatgctttt 480
tattttgact accatttaag tggaatcttt gaactttttt tttgacatgt gaatctctaa 540
tgtggtgaga gagaaaaaca taaaaatata aaaacattca aaaaaaaaaa aaaagggcgg 600
ccgct

```

<210> 1106

<211> 805

<212> DNA

<213> Homo sapiens

<400> 1106

```

ggggtgcacc tgcttgtgca gtcagcatgt agctgccttt ccatttcatt ctctactggg 60
ctaaaaattg cagctacaag tgttaccatc ttgaagcagt ccacttccat tcaatttttt 120
ttttttaatt ttagaataac agtgtcccca taccaaagga agcctgctag ctcatctcat 180
gtataaaatt cccatcttca aacagtttag gtgtatttgt tgctctggtc acattctgca 240
taaaagaaat cctcttaagc ctatggttaa gaaaagcctt gaagtttata ttcagttaaa 300
atatatgtcg gtggagatag ccagtgcctc taattttgac ttagtttcat acagtaaagc 360
ctaaatgtga aacgcacacg ctggaagata ttgttcctat caatatTTTg ctttttataa 420
caagggtttg ttcataattg tgccattttt gcaggatttc ttcgtgattt ctgtccatat 480
gaaaatgctg acattaaaca ttaacacatg gagaccgtgc cctgtggccc tgccgtggct 540
gccagcatgg tctgtgtttc cttgtggatt cacctgtggc cctgctgtgg ccaccagcat 600
ggctctgtgc ctctgtggatt cactgcagct gtccgatgcg agtttctgtc ataattcatt 660
gtttcctgat acaattgttc ttattctttt ccaaaactgt aaaataatct cctccctcaa 720

```


713

atgcaaaggt tgtttttggt ctgtttctgt tttctttgaa ataaaaattat aacgttaaaa 780
 gaaaaaaaaa aaaaaaaaaa aaaaa 805

<210> 1107
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<400> 1107
 acactatatn tagggacanc tgcccgtacc ggtccggaat tcccgggtcg acccacgcgt 60
 ccgtactgcc ctttttyaac ctcagatgtg actttcatta taggaagttc tcaggcattt 120
 tctcttgga taataacctct tctctcttct ctttatgtcc ttgtgccgca ttctgggtta 180
 ttccttttagc tctagggttaa gttcactaat tcttccttta gctgtatttc attattgttt 240
 aagctgtcca ttgcatttta aactttcttt caaatatctt cccttcctt cctttccctt 300
 ctcttcctg ccctgccctg ccctgccctg ccctgccctc ccgtccctc ccctc 355

<210> 1108
 <211> 447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (357)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (408)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (442)
 <223> n equals a,t,g, or c

<400> 1108
 cccacgcgtc cgggttattt gtattttacc tggcaaccct atgttggagc ctccttcctt 60
 gctgcagcca acaggggtag aggatctgag ctgcttattt gtaactgaaa gtccatggga 120
 ctgcttttat ttgggggaat ttttctgtta actgtcatta tgaaagtgat cacgatgaga 180
 gattcagatt tatttttaaa attcgggtgga ggaatatctc ctcattgatt tagatctttg 240

714

```

atTTTTTTtca tcagagggttt tgytttccctg ctatagattt tgcatactctt ttgttagatt 300
tataacctgaa ggTTTTgtct ttttggaaatg tgtgtttttg cacgtgtttt gctaanttgt 360
ttttaaatc caaatTTtat tgcttggcat ataacaattt gaattttngg tatattaacc 420
ctggtgaaaa ggaacccaaa anaacct 447

```

<210> 1109

<211> 802

<212> DNA

<213> Homo sapiens

<400> 1109

```

ggttacctcc tgaatcactg tatatgccat gttttgcgat aagattgctt gcatttttctg 60
ctcaacaatg tgtatcttct gtttgggaaa gcactagtga tggattactt tttaaagcaa 120
tacatttagc ttgcaaatg tgccctttaa aaaaaaaata ggcagacttt tgagggccaa 180
gaagggaagct gtccagtttt ccaaaaatcc tttttccctg ctatcagaaa tgtgaaacca 240
aatTTtagcaa ccaagattaa tgaaaagatg ggTTTTccat tagtgctgtc cctatcttgt 300
tcttggtctt gttatgtcct ttcccctaga ctgtatcccg acaaaatgtc ctagtaacaa 360
attgctTTTT aagctcctgt tctgggaaaa ctaagcatta aaattgatta ttctaaaaca 420
taaagtggac taaagccatc ctatTTtata atTTtcta gcaaagtggg ttagtataga 480
gttaacactt agaagtTtat agtttactgt ttttattctt atgtactgta aggaccatat 540
ttgagTTTTT ggtctattcc taccattgtt tctttgtggg gaggagtTgg ggcggTTTTg 600
gggattggtt tttttTTTT gttttTTTaa actacaggta tttgtaaaac aatgtttggg 660
ttcaaacaaa ttagttgtta aacatctgta atccagtttt ctgtaaatgt tgctgttgtt 720
ctaagctctg ttaatgttaa gcattctttg tatataaaat tacaataaaa tgttaaaaact 780
gaaaaaaaaa aaaaaaaaaa aa 802

```

<210> 1110

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (407)

<223> n equals a,t,g, or c

<400> 1110

```

aaaatgcaaa gctgattttc atgtttatat atattcatac cttgatatat tgcaatttta 60
gagtttctgc agtctgtcta acttggetgt ttgttcatag gccagatcaa actaccctca 120
ttccccaaaa cttggattgt gaagggatta gtgccccaga actctctgtg ttactggcag 180
ggcaaaatgg gtaggaatag tctggcttag ggaaaaagac atattttctc tctaacacaa 240
ctggcagata ctgaagtggg caggtggcaa gaaaaggcaa gtactgagct gattcagact 300
tgcagaaagc ttctctcct ccttcttagc aaaatgaaag gctctgggaa aaggcacctg 360
cctttccctg ccttgaggat cctggcatcc ttgagtctt attgaanatt aatttaatga 420
cttgggtcaac aatagcatta cctaatacaca gagcatca 458

```

<210> 1111

<211> 754

<212> DNA

<213> Homo sapiens

715

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<400> 1111

```
tatagggaaa gctggtacgc ctgcaggtac cgggtccggaa ttcccggggtc gacccacgcg 60
tccgcaaatt cttttgtcaa atttgcaaatt attgaagaag acacaccatc ctatcacaga 120
cgttatgact tttttgtgtc tgcattcagt gccatgtgcc attcctgtca tagtgatcca 180
gaaatacgaa cagagatacg aattgctgga attagaggta ttcaagggtg gggtcgcaaa 240
acagtcaacg atgaacttcg ggccaccatt tgggaacctc agcatatgga taagattggt 300
ccatccctcc tgtttaacat gcaaaagata gaagaagttg acagtcgcat aggcctcct 360
tcttctcctt ctgcaactga caaagaagag aatcctgctg tgctggctga aaactgtttc 420
agagaactgc tgggtcgagc aacttttggg aatatgaata atgctgktag accagttttt 480
gcgcatttag atcatcacia actgkgggat cccaatgaat ttgcagttca ctgctttaa 540
attataatgt attccattca ggctcagtat tctcaccatg tgatccagga gattctagga 600
caccttgatg ctgcgtaaaa agatgctccc ggggttcgagc aggtattatt caggttctgn 660
tagaggctgt tgcattgctg ctaaggttca taggtcgaca gtgcgaagct tcataccttt 720
gaacatcgcg ctcagcgtga tcgaacaatg attc 754
```

<210> 1112

<211> 624

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 1112

716

```

ggtcctgagc tggctgccgc ttccaagaca gtcgctttga gggctcttgg caccgatttt 60
gttaaaatgc atgagcttag gggtgtgcag cctgtagggg caggggtggg ctcagaatgg 120
atttggtggc cccaccgtta attaaagctc tgaccctggg gccgggtggg aggtgggaag 180
atgagcctgt gtctcccatg ctgagccaag atcctcaggt accagtagcg gtcaaagcac 240
ctgctccctg aaggaagctt acctggctta gcctcattcc tgctcgtaag tcaggcattc 300
agcttgcaaa gatccccaag cacacaagga gagtcagctg actgagggcc aacagaaaca 360
gcaggcagcc gctgtcagcc acaaagaaac gcagatcctg aaactgtcat catacaggtg 420
agaggatagt tatgtgtgag gtgttcaaag aaagtcgcgc agtcagtgat gagaaagctg 480
katgggtaca tactgtcacg catgaatagg caggactcct taaagaactt tttgggaaat 540
gaaaaacang ccangtgcaa tnggttcatt cctataatcc ccaacacttt nggaggccta 600
aagggggagg atcactttga ncct 624

```

<210> 1113

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<400> 1113

```

ggaggggaaa agccctcctt tggcaccccc tcttccctga ctgctgtccc ctaccacacc 60
ttgccccctt catccttttg cgtttgggat tgagactctc ctgactcta ctcctctttc 120
ttttgtatgg acagttcccc ttcagtccca tccccctaca catacaccca gccggggcca 180
aatttatact tatataaaag ttgtaaatat gtgaaatttt atccctgtgc cttttcccca 240
cctcaggccc tacccttgga ccctcccaa ccttcttctt ctcttctttg gctgttgtaa 300
ttatctgggg tttgtactgt acatatccgg ggtgtgtgtg tgtgggctgg gggcaaccct 360
tctgtacaga gcttcctggc cccctcccc cccgcccctc tgcttccctc cccaccacc 420
acctcaaggg tagggagtgt ctcttcttac ctgttttatt ttgttttctc gttctccctc 480
cccacccac tcccagcctt atctatcccc cctcactgtc cctttttctc cactcccagc 540
cccatcttct ttttttctgg agtgtgtggg gaaacagaaa aaaacatgtt taataaacgg 600
agattgttct tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaanc 660

```

<210> 1114

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<400> 1114

```

ttttgaaatg tttttgattg ttttatataa setagagtga ctcccttac ccttatttag 60
atctgcatat atagttctag tatgaagttt aatagttaag gagttagcta tttgttatct 120
ttaagagtag ggtattgacg tgaacaattg cagtattttg catgatactg ttttatagat 180
gaccttttag gaaagtgggt cattttattaa ttgaactgaa gaagtagttc agttgaattc 240
agtatcataa ttcacaaatt ggaggctggt gattttgatt catttaaggt ttaaaatctt 300

```

717

tattaattgc aaacagtgc attatattata cttcacagtg ccttcccaga ccttccacct 360
 taggttctgc tgcaaaaagc accaggtaag cmcaacctaa ggacatatat aaataaatat 420
 ttcaatrcat taatgttgct cctgtgaggt ttttgtgggt gtgtattcaa aggcaatctg 480
 ctactgcttc cccaaaatgt attttgnat tttatgc 517

<210> 1115

<211> 886

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 1115

gccgtcntca aaaaaaaaaa aaaaaaaaaa acaaaaaaaaaa aacaacccag aaaaacccaa 60
 aaaacaaaca aacaaaagaa ccaaaaaccc ctttctttca tgcctagatt cattccaaaa 120
 aggtttaaga cagcaacaag tgattccagg atctcagctg tgggcatcct tgtgttactg 180
 gatggctgtg tgtaaytgt tagcagctgg aataagtga gagggctctg tcctcact 240
 caaagtcctt tgctcatgcc caaggccaga ggynactcat gctgaaacat taccatctcc 300
 ctccaaagtg caggggttag tctactgagta ctgggtggag cacatgactg gatcccagtt 360
 aatccctccc agcttaccag taaaacctca ggattcatgc tttcctggga gccacctkcg 420
 gccactaaga taggagcggg gttcagacat ggccaggcgc tcctaattctc agacccaaag 480
 tgcaattttt ggcagcctgc rtgagaagga ggggtggagg aaaggtggct agaaccaagg 540
 gtagcagcct gggggcttga gaggaaaccc argcacagcc catcctaccc tgtctcacga 600
 gcagcccgtc ctctctctga ctccccctac cccacacacc gagcgccatt ctcttgctgc 660
 ctcatctatt ctgggttaggt acttactgag catcaggtgc taggcaagtg gctggggaga 720
 gacaacgttt aatgactcag tctccgctg cacagagcct ttgagtctag agggagacac 780
 agacttactg acaggctggg ttgtgtaata agtgctacgg gaggaaaagc tgagagtgtc 840
 tgagaattta tgagatgtgt gtctcatcag acttgggcat caaaaa 886

<210> 1116

<211> 315

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

718

<400> 1116

```

agacttatga taataagcaa tattttgcaga gtattttgtat gtgccanaca ctattgtaag 60
tgcttcatca tgtactgatt catttaatac tcacagaaat cgtaaatang ggtattatc 120
ttatcctcac tctatggatt aaaaaaacta aggcacaaag ggtaaagcc tccttgctg 180
agattataga ctgtaagttt gaacgttgag cacttggaat acagarttca tgctgtaaac 240
taccacacta tagggcctcc aatatgataa tttataaaat atttgaataa aaaatgaata 300
ctagttccac atttt                                     315

```

<210> 1117

<211> 749

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 1117

```

nccgacagtg accggntccg gaaattnccc gggtacgacc cacgcgtacc gccagcatgg 60
gccaacagaa caaggacctt gtctctatct tgttttttgt ttttgttttt gttttttcat 120
ttttcagtggt tcttaagttt aaaacaaaaa aaaaaaaaaa aagaaaaaga aatgcaaagc 180
tttattttat gagtcagagg acttgatact aagtcttaag attgtaatac tgcccctgcc 240
aagttaatct gcaaatcaaa caaattcaaa aaaacaaaaa cctccactcc cagatacctt 300
tttgcaaaaa ttgacaaktt gatcttaaaa tttatgtgga cccagagtag ccaaaataat 360
cttgataaat aacatatattg gagtactcac tcggatatca aaacttaggg caaaactaca 420
attataagac aggcataaag ataagcgaaa taaaagtcca gaaataaacc cttgtgtttt 480
gtagtcartt gatgtttggc aaaagttcca agacaattca aatgggaaag aatagtctct 540
tcaacaaatg gttttgggac aagtaaatat tgaccctctc tttatgcat atacaaaagt 600
taaactcgaa atgtaacaaa cacctaaata taagaattaa aactataaaa ctctaagagg 660
aatatctaag ggtaaactct cagcactttg gggtacacaa agccttggtg atgtgacaag 720
tcacaaaaga aaaatagatg aacaccaca                                     749

```

<210> 1118

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

719

<222> (598)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (636)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (686)
 <223> n equals a,t,g, or c

<400> 1118
 gggagatggc gtgcaagtat ccgctgcggt gttctggtgc tagagtggag aggctggcaa 60
 agaagaaggc acacgcatgg tgagaatccg gcctgagccg aagcggagtt tgctatggac 120
 agcaaccatc aaagtaatta caaactcagt aaaactgaga agaagttctt aaggaaacag 180
 attaaagcca agcatacttt gctgagacat gaaggcattg agacagtatc ctatgccact 240
 cagagcctgg ttgttgccaa tgggtggttg ggtaatggtg tgagtcggaa ccagctgctc 300
 ccggttttag agaaatgtgg actggtggat gctctcttaa tgccacctaa caagccgtac 360
 tcatttgcaa gatacagaac tacagaagaa tctaagagag cctatgttac cctcaatgga 420
 aaagaagtag tggatgattt aggacaaaag atcactctgt atttgaattt tgtggaaaaa 480
 gtgcagtgga aggagttgag gcctcaagcc ttaccaccag gactcatggt agtagaagaa 540
 ataatttctt ctgaggagga gaaaatgctt ttggaaagtg ttgattggac agaagatnca 600
 gaccatcaaa actctcaaaa aatccttaaa acacanaaga gtaaagcatt ttggttatga 660
 gttccactat gagaacaaca atgtanataa agataagcca ttatctgggg gtcctt 716

<210> 1119
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (265)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (276)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (347)
 <223> n equals a,t,g, or c

<400> 1119
 gttagtgtat aatgagccca agtgtgattc ttcccatttg ggaattctgt gaatcctgct 60
 gtaggttggt gcctgtctga ttataaaaaga ctaggctcat gtttttgctt taaatgtttg 120
 agattatggt cttataacctt agtgcttctg gggcaatctg aacattgttt gctttgtaaa 180

720

```

ataatttctt ttagagtart ctcatgccaa atttactggc ctttgattca gtacagttag 240
gtttactgta ttagtagtaar ttganaccct gcgtanattg gtctcatgtt agcattcttg 300
gggaagcttt gaaaaatttc ccaagttaaa aattccagaa attgatnttc cccagatctt 360
ta 362

```

<210> 1120

<211> 1248

<212> DNA

<213> Homo sapiens

<400> 1120

```

gcagaaatgc tggggcctgg aataagggag gagaggggac tggagagtgt ggggaatgga 60
aagaagcagt ttactctaga ctaaagagta tattggggga ggaagagagg gaggcacgta 120
tgaacaagca atgagaagac caggaaaaga aagagctgaa aatggagaaa gccacagtta 180
gaactgttgg atacaggaga agaaacagcg gctccactam agacccgccc cccgggtkga 240
tgtccttcca agaatggaat ccttccctgg tgatggtctc tcrccctgtc ttaccagcat 300
ccactctccc ttgtcctccc aggggtgtat ctgagtcagc cagtggcttc ttgatgatgg 360
tggtggtggt ttagtgttga cagggtccct ttaggttatt taagggtgca tgtcccctgc 420
ttgaaccctg aaggccgggt aatgagccat ttccatggtg cccagctgag gaccaggtgt 480
ctctgagaat ccaaaccatcc tggagagtat ctgagaacca accaagtaaa agtctcgttg 540
ctcatatata gtagacaaag agccagaaaa ttaactgaaa agcagtttag acattggggg 600
aggcyggatc tctcgagctg tcttgctgag tgccctgtgt gtaagtccta ataaacttag 660
ctactcgcca agctggactt gtttgagtca ttccttggtc tcatggctcc tttcccgctt 720
tgagggcaag ttctgtctc aagtttttgt cctaacagtg gtaaagggtga ttgtggtgat 780
gtcagcagac agcaagagga cttgacatgg ggtcggccct gcttggggcc agcgtacact 840
gagggaccga tgacatttca atgaaactcc aaatgctata ttggaaacgt tgatgtgtga 900
agaaaaataa aagcaaaacc agatgccagg aacaagtcaa aatgttgtgg tgcattgagg 960
agatgaacca gcctgcagtc aagagacccc atctctctga gcctcagttt cctcatcagc 1020
tggaagaggg gggctggaca agatgatata tcacatccac ctggccctct tctcttgtgt 1080
tctagagact tgtgttcaag caacactgac tgatgactga gcctttgtgt gctgatata 1140
gggtccctct aggtctctgg tgctgactt ctcttctca tgattcttct tccaggctct 1200
cagggagcta ggctccatg gcccttctg cttactctcc agactgcc 1248

```

<210> 1121

<211> 723

<212> DNA

<213> Homo sapiens

<400> 1121

```

gtgatccctt cagattgaat taacgaaaag acaacacttc cagtttttgg attgggaaat 60
accttctaata tgagactata gccaaaccag ggccaaaatt atggatattg gtcaccacgt 120
gatcataact aggcttgaaa atcactacac atattttctg ccttgagtga acatttttag 180
aggaaagggt atgccaatctt tttaccctaa ccaactgatat tctggtttagc agggccagga 240
caaggggaag gaaaatgagg tcaacaaaaa aatcaaattt ttaggaaaag ataagatgaa 300
tgttactgat ttttctttt ggctgaggct gcaatatggc ctggcaaggc actgktactg 360
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cccaaggcag gtacctcact catctcatcc ttggctcagc cctgctgggt agtatttagt 600
atatttttta gtaagatatt tgtgtctgta tgatggctcag agttgaactg atctggcttg 660
tcatttttca gtaataaaaa aagttactga atttaaaaaa aaaaaaaaaa aaaaaaaaaa 720

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721

aaa

723

<210> 1122

<211> 782

<212> DNA

<213> Homo sapiens

<400> 1122

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gcactagaag ccctcacagt tctttcttct gatcaagttt taccagtgtt ccattgcttg 660
aaagtgttgg ttcccaactt ctgacttctt ctgaatcact ctgcatagag cttttgacat 720
ggctggaaaa tatactcttct ttaagcacac tcagctgata ttctgggcta attaaaagct 780
tt

```

<210> 1123

<211> 768

<212> DNA

<213> Homo sapiens

<400> 1123

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ctagttctag atcgcgagcg gccgcccttt tttttttaaa gaaacacttt ttattttgaa 60
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cccagtgggtg acaactgtag tataatatca attctgggaa attgacattg gtacaatacc 180
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aacactcagc ttttaacaaac atgcagattt ttgctgatgt gggagaaaat attaattatt 480
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taaactcttt ataaaaggaa attaacatt tgattgtcat atgttgtgaa tttttttacc 660
atthtgactt ttgaatttat gtctttttta tgaattgtag aagtttaaaa tctttatgga 720
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```

<210> 1124

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

722

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

<400> 1124

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gagcgggaagg tgccccgggg ccgaggcccc tgacggggcg ggcgggagcc ccggcagtc 180
ggggtcgccc gcgaggggcca tgctcgctgtt gggggacccg ctacaggccc tgccnacctc 240
ggccgcccccc acanggggccg ctgctcgccc ctcc 274

```

<210> 1125

<211> 1135

<212> DNA

<213> Homo sapiens

<400> 1125

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catccaggca ggcgaggaga agctgtgatt cccccatcc ctctgagggc cggcggatgc 180
tggatccgga gccccaggtt ccgccccaga gcggtcctgg acaaggccag accaaagcaa 240
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cattgccttc ccaaccttc cagaggcttt ctgtgaaagt ctcatgtcca agttccgtct 360
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gtcttggtg agggtaggga gaggacaagg ggtcacccag cccttcccag agagcaggga 480
gcttataaat ggaaccagag cagaagtccc cagactcagg aagtcaacag agtgggcagg 540
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cactgggctc cacccccacc tccaggaggg gaggagagga cctgacatct gtaggtggcc 660
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<210> 1126

<211> 446

<212> DNA

<213> Homo sapiens

<220>

723

<221> misc feature
 <222> (435)
 <223> n equals a,t,g, or c

<400> 1126
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 tatagtggac agcttgctgc tctgacagwt gaaaacacaa cgctccgttc cmaactggag 360
 aagcaaagag agagcaggca agactggraa cagaatgcat cctaccttgt aggctgatgc 420
 tgttcgttgt gttcnggttc aagtca 446

<210> 1127
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 1127
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 gactgcattt agctgcttca gtgacacttt gatgaaagta tggagaagtg gagacattat 180
 agataaaata tatcaattcc cagagaaaaac tcttgactta aaaacttaac tgtagtaaat 240
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 aaaaaataat ctagaaagta agtttccaga gcaaactctga cctagcattt ggtatgctag 420
 gctctgcttt tcatgatttt gaaataaatc ataattagac ttaacaatat ggagaaaata 480
 aacttgattt tttaagtgtt ctgttggtt attttctgtt tcatccaact caataattct 540
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<210> 1128
 <211> 2229
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (872)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1968)
 <223> n equals a,t,g, or c

<400> 1128
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 ggctgctggc ctccgggtgc ggggtggggg caggctccga cctggggcgt cctggcagcg 180
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724

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gaggtgactt cgctgtgat ggacttccag tgtgagcact ggccagagtg accaggctga 420
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```

<210> 1129

<211> 949

<212> DNA

<213> Homo sapiens

<400> 1129

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agtgtaaaaa actccggacc ctggatctgt ggagatgtaa gaatattact gagaatggaa 180
tagcagaact ggcttctggg tgtccactac tggaggagct tgaccttggc tggtgccaac 240
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ttgataacag agctgtgcta gaactgaatg caagctttcc aaaagtgttc ataaaaaaga 540
gctttactca gtgacttaat atatgttctg tattaaaatt aatgtgcttt gttgggggtt 600

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725

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aatttttgga ttggttttgg gttttgtttt tagttgtttt aatggtaaga attaagacat 660
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cttatgttaa tcagtgatat gcttttagtca ataatatgat tgataaaaaga ataacatgga 840
atcatgctaa cttatttttca aaggaacact gagcaataaa gtatcgtggc atttatgcaa 900
aaaaaaaagt taatttttta caccttcattg taaggatgtc ttattaaag 949
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<210> 1130

<211> 1418

<212> DNA

<213> Homo sapiens

<400> 1130

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aaagaaraaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1418
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<210> 1131

<211> 1662

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1656)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1661)

726

<223> n equals a,t,g, or c

<400> 1131

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cttattactg cacagagcca ggatgtggga gggcatttgc cagtgcacaa aat,tataaaa 180
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aaagttaaat ccaaaaaaaaa aaaaaaaaaa aaaaangggg ng 1662

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<210> 1132

<211> 387

<212> DNA

<213> Homo sapiens

<400> 1132

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acacacccat gtccaccac cttagggtta atctttgtta ctagccctca ctactcagaa 180
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<210> 1133

<211> 82

<212> DNA

<213> Homo sapiens

727

<400> 1133

tgcagccacg cgctccggttc tagatcgcgga gcggccgccc tttttttttt ttttaaactg 60
ttctgcactg gcaaaaaaaaa aa 82

<210> 1134

<211> 806

<212> DNA

<213> Homo sapiens

<400> 1134

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<210> 1135

<211> 639

<212> DNA

<213> Homo sapiens

<400> 1135

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cctggagacc tacggcgccg agctcaccgc taactgtctg cgcgacatgg gcctgcagga 180
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cctgacggat gagcagtacc aggcagtgcg gccgagccca ccaacccaag caagatgcgg 420
aagctcttca gtttcacacc agcctggaac tggacctgca aggacttget cctccaggcc 480
ctaaggaggt cccagtccta cctggtggag gacctggagc ggagctgagg ctccctccca 540
gcaacactcc ggtcagccct ggcaatccca ccaaatcctc ctgaatctga tctttttata 600
cacaatatac gaaaagccag cttgaaaaaa aaaaaaaaaa 639

<210> 1136

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (427)

728

<223> n equals a,t,g, or c

<400> 1136

```

gtccggaatt cccgggtcga cccacgcgtc ccaaaaaaaaa gcaaatgctg aaatcctatt 60
ggcaaagtaa actgaaattg gctgctatat tttatataat catttctgca aatcccattt 120
tttgaatact aatatttgac atggttaatt cttattaatt tgttgaatt gtttattgtt 180
aataatgcaa atagataatt ttttaattatc cacaagtaac atttcaactgt taatgggttg 240
aaataggtga taagcaaacc aatttgaaat aaaatataaa catgtgccat tgtattataa 300
cactatacac tttcttgaca gttaaattta aaaaaaaatt ttttttggtg gcatgtattg 360
tatatgttta tagtatatgt agtaaataaa aatatggcca aaaaaaaaaa aaaaaaatta 420
ctgcggnccg acaaggaat tc 442

```

<210> 1137

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (662)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (668)

<223> n equals a,t,g, or c

<400> 1137

```

aacaaatggt gtcacttgaa ataccaaaac aacatttctg agcgttggtg agggactggc 60
aaagcaatca gctactataa caaatcagta grrataaccc tcccacacca gatatgcatg 120
cagaaggaat ggagtattat agagacttga tacaatggac atatgcacat ggagggtacaa 180
aacacacagt cttaaatacaa atgaattcca tcagatttac tatacggaac atcagtagtg 240
acagattgca cttcttactt aataacagca aacttaattt ctgaggggaa aaaaatggcg 300
aagtcttatt ccaaacaat agcaagagag gtatcatcaa gagctaaaat tttctttggc 360
atggtaaagg gggaaattga gtttaccaac ttatttacat gacatttctc tatattggtg 420
agtaatgcaa tgccattttg ttacataaag ttgtttgatg ttttttaata tgccttcata 480
taaatatttt attcaatatg ttgtatttgt gaatttaaca aatgatatta aacacaaact 540
acaatgcaga caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggnggc cnttttaag 660
gntccaantt tac 673

```


729

<210> 1138
<211> 558
<212> DNA
<213> Homo sapiens

<400> 1138
gcccacgcgt ccgatcttcg agctgaagaa attgatccag tttactttga tcttcacct 60
ggtcagggcc atacaaaaacc tgaatactat tctcctaatt tccttccatc ccctttcagc 120
tcctgggacc tacgagatat ggccctgctt ctgaacgcag agaacaaaac ggaagccgtg 180
ccccgagtgg gaggacttct tgggaagtat atcgatagac ttattcagct tgagtggctg 240
caagtccaga ctgtacagtg tgaaaaagca aaggggggca aagcaaggcc cccactgcc 300
cctgggacct caggggcact gaaaagccct gggagaagta agctaattgc tagtgctctg 360
tccaagccac tacctcacca ggaaggggct tcaaagtcag gcccttcccg aaagaaagct 420
tttcaccatg aagaaatcca cccatcacat tatgcatttg agacttcccc tagaccatt 480
gatgtgcttg gtggtaccag gttttgttct cagaggcaaa cccttgaaat gaggacagaa 540
gaaaagaaaa aaaaaaaaaa 558

<210> 1139
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<400> 1139
gatcatatgg taagcgtacg tttagtttag tttttttttt tttttttttt ttttktttnc 60
ygggggttaga agcyattcga aaagtccagt ttcygtccca gtgtagcaaa atgtagttcc 120
tcgggtgttt ttctttaaat gctttataat tttacactac ctttttaata tacaaacctc 180
attcttcatt ggataacttg aaggctttga tttcttttaa aatttaaatt ttagtrtgta 240
tattactttg acagttccct catctttgag atgcactgat cactgtgctt gaaaaagaca 300
atactgaaga ttgtactatg aagtttattg aataattttc ataaattatt tatccaaatg 360
agagattttt agatttttgt attctgctta gttttaaaaa aaaaaaatag tagtttaaaa 420
gagaggctag taagtttgat gctattcttg ccaaacaaac tcagccaaaa tctttaaagt 480
aacaagaggg aaaaggatga ctaatcggtc tgcttctgag tacattttcc aaaacggttg 540
aaagaaactt ctgaattgaa atcttgaatg tattgaatct gtcaaggtag acagcggtag 600
ctttgtaaat gttcattact ttattttaatc aggtgataag tgggtgaatg tagcagagct 660
taagaataga actcaattat cactttttgt gaacaagttg gaattgtcat gttactgtgt 720
aattgatttg ctttacaatg aacaataaat ttaataaaat aaaaaaaaaa aaaaaaagg 780
cggccgctc 789

<210> 1140
<211> 830
<212> DNA
<213> Homo sapiens

<400> 1140
ggaacacagt ttgtaagttc acatttacta taatgggcca aaaccataac ctgccagttt 60
gcaatacatc ttgatctttt aatattctta tctgatattg tgtaattcaa ttcctaaact 120

730

```

gatagttacc ttgaattttg cgaaaagggt tgggtgggtt tttttaaaca tgaaattgag 180
ggatctcacc tgggcgaaca agaagagaaa gctgtgaatt gtactgtatc atgtacattc 240
ctgatttaac actttacaga acatttttatt cagatatcaa tttgttacat aaacatttca 300
gcaatgatac aaagataact gataaaatat attacattca atgagggttt ctttacaagt 360
gctctacttg aggtctgtgt cttaaagatg gcatgacacc taagtacaag acatcaactg 420
aatgaggatt ttaaaaaatg gtatataaagc ataggacaag ggctatgttt gtttgttttt 480
caaaagtgtt ttgaagataa cagcctttag gtttgagtta tttcactttt cataattttt 540
aagtagctta tatataatgg tggtagcata ggattttctt ttttcaaagt actgtcggca 600
gaaacagtgg gcaactgact accttttgag ttttagcaga gaattattta tttctttaca 660
atgcactttc taaccatttg tagctatatt agcattatct tttaaaaaag acatgctttt 720
gtatttaaat attgtaggat ttaagtgkct ttctcaaaat agcytattcc tttctgaaag 780
aaaatgaggg aaatactctg aattattagg agacttaaac ccaatattta 830

```

<210> 1141

<211> 1110

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1108)

<223> n equals a,t,g, or c

<400> 1141

```

catttaatac tggagtttag cacatgtgat tagtggctat ggtattggac agggaaggta 60
cagaataact ccatcaacat agaaaattct atcagtctag ctctaggggc agatagtcct 120
tccactgact tgggcaagtc actctacaaa tggcatctac ctcacatggg tatgggtgaga 180
attcagcgta tgtatgtaca tgcaggcaca caatatgcac acagacacat aacatagtag 240
accttttctt gaaaagcctg acacatggag ctcaaacatg agtgccaccc acccctgggc 300
agcaccaaga tggctctagt ctgggtgect ttgtctcacc cccatgcctt tgctcggagt 360
gtgctcctca tttttctgcc actttgaccc tgtctctgat ttggtcctgt ctgacatcac 420
tgctatatgc tttgtctctc tcaatttctt ctgcctcat gccagcagga gtcatgccag 480
agatcatatc tgagaaagca agacaatttt gtgtgtgtgt ctgtgcccac agaggagtgc 540
tgggtgtgtt gatatagttg tagattgggt gtgtttacac agttgtatat attgacaccc 600
ttgagtgtta tgacttcttt tgggggtggt cgccttttaa atcataactt ttaatgggat 660
tccatttttag tctttgtgaa gacataaggt tgttggcagg catctgtccc tgggagcacc 720
caagcagaaa agactaagac tccctttagt acagatcact ggccgccact gaagtgtgtc 780
tgcatggcac cacagggtcg gaagaccctt gaaggcagga attcaaggaa atgtatgatg 840
aattttggca ttgccatcaa aagcagaaca ggcattgaaa acttgggtga gtgggcgaga 900
caacctcttc accacagcag agttccatcc atgcctggat aatgagggag ggatttgtgt 960
ccactgcagt ggggaaccat gaaggacaca tcaagggtgt ggttggcctg tgggtgctctt 1020
tggagggaatg aataaaaaatg aatagaaatc ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaaaaa aaaaggnntt 1110

```

<210> 1142

<211> 406

731

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<400> 1142

```

gttaaaaatg gaaagcagaa agtaactgca gtgatgaaca ttttggtcca aattccttgtt 60
ttaaatctta cacctgaaag taaaatattg ggatcacttt tccctgtcta aactccagga 120
tacagtatcc aatttatcca aacagaactg tgggtgtcaat gtgtaattaa ttgtgtaaaa 180
tagccttccc aagtttcttt ttccctggaa aaataaaaaa ggtaatagaa cttgtagttt 240
tatgtaaaacc ccatgtcatg aggaggtact agttccaagc aacaaactcc ttaatttgct 300
ctaatagata ggtatggttt aatctttcca ttgtgtcttt tcatttaatt ttcctgaagc 360
ttgcaggata gattgaaatg ttatagggtt gtttggantt aaccac 406

```

<210> 1143

<211> 421

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 1143

```

gcgtccttcc acgcgtccgg cgactgcagc gggtnccgtg caggtgaggg gcgcgcgcct 60
gccagcttt gcagcccccg aacgcggcct cgcacagata cccagacaaa tggattctaa 120
aatttgaata gaagagcaaa gaaaatagga accaatttga aggactacaa ggtggactgc 180
ttgtcagct cagtatcaac acttatggag tcattgcagt tttcagtaga ggtgtacttc 240
tgagaagtgg cttcttgggt cttcatgcag ccatggatct ggatwaacca tctgtttggg 300
gtcattataa acagcggacc aggccattgt tgatcaactt gagcawgaag aaggtgaaaa 360
agaacccaag taagccccca gatctacggg caaggcatca cttggaccgg cgnctcanc 420
t 421

```

<210> 1144

<211> 266

<212> DNA

<213> Homo sapiens

732

<400> 1144

```

aaaagtgtag ttatcgtaac atcaccttga aacaactttg ttactgggat acattttaatt 60
aagcaactac catgaatgta gtcggtacct tgccttacgt gcttcagtat atatgttggt 120
cttggtttat gtacaggcta aatttgkaga ttgaatagca gaatattagt tctgwtctta 180
tagggcctac tgstgtattc agagttatga agctacgttt cttctgcgtt tggctgcacc 240
atgaaatcct aagaagacct aaaccc 266

```

<210> 1145

<211> 725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<400> 1145

```

gcatnaaatg caagtataaa acattccaaa ttaaaataga atatgcacat tgttcaaagg 60
caaaactctt accctactat atatatatta catccctcat tttttcccc tctaaaatgc 120
attggtattc aggattagaa tctgaatctt ttgctataaa gttgacatac atnggtttta 180
atcccttgaa agttcagtaa agacctaaaa ggaaaagcat cctaccacac cacactcatg 240
ttgtatgtgc aactattata gtggcttaga gacactagtt cgtgttcttc gtttctatat 300
tagtaaagat gttagaggaa attaattctgt ttgttgcac agggtttaat gtgaccatgt 360
tgkataacta ttctgaaagg taagaagttt ttcactggag tacagtcact ggctgagaac 420
atttaagttt ttttttgaag catacacagt taacaactat tgcaggaaga actctgaatt 480
aaatttcagg cccagagttt tgattttaa acacaaacct tggaaaaaaa gactgctgga 540
aaatatgaaa gaacccttcg tttcttaacc cccacaagtc cttttattgc acttactttc 600
atgtatttga ggatgagagg agcttttaat caacaataat tactaagga ataataag 660
gtggtctatt gtaacatttt atgatattat tgccttgga ataaaagata ctgaacaatg 720
taaaa 725

```

<210> 1146

<211> 435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<400> 1146

```

cccacgcgc cgccacgcg tccggttcaa aattcaacag tgtatgtcat tgccttctct 60
atagggtacc agtcgtcctt cacactatca tgttttatgg gatgataact gctttactgc 120

```

733

```

agatgaactt cagctgctaa cttaccagct ctgccacact tacgtacgct gtacacgac 180
tgtttctata cctgcaccag cgtattatgc tcacctggtg gcatttagag ccagatatca 240
tcttgtggac aaagaacatg acaggtaata taaaagcata acaggttctc acccaaatcc 300
cmatattgtc tgcattgtag gattttcaak ttccacaagc tattaacgga rctmgygat 360
ccatgtkaaa aatgatgama gaactgactg cccaangatt cctatttgaa aatatattgg 420
tctaggctca tttag                                     435

```

<210> 1147

<211> 533

<212> DNA

<213> Homo sapiens

<400> 1147

```

gtgttaatgt gtgtgtatgt gctttggttg taggaaaact tgaaaattcc aaaatcctta 60
ttttcctatt tgagaggctg gttcagcagg gtgtgtgtgt gtgtgtgtgt gtgtgtgtat 120
gaatgggtata ttattacat tttttgaaa gagaattagt gtgttatgtg gataatgtta 180
tatacagcca aagtggatgt ttctrtrtgg caaggaaggt aggatttctg aaactcaggc 240
cttaaccaat aggttggaag acaagaccaa ttgaagagtt aggaaatgtg agtttttgtt 300
acttctgtta ttccagtctt ggtttcattg tctcattctt tttttttaa atcttgtgcc 360
taaaagtttt tttgcttaat tatgaagtag acatgcatgt ttacatttat gtaaaatatt 420
tgctgtgtaa agtatttttt gtttattctc ttaaaagatc actatattta aataaaagt 480
aaggctcagca acmcaaarar aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 533

```

<210> 1148

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<400> 1148

```

tgacatggta gcgcacgcct gtagtcccag ctactcanga ggctaagggtg ggaggatcac 60
ttgagcctgg gaggcagagg ttgcagtaag ctgagtaagc caagatcatg ctattgcact 120
ctagcctgga tgacagagtg agaccttgct tcaatgaaaa agcagggggc actkggaggg 180
ggaaccaaatt gccctatcct ccagttctca gcatatagaa gggagctctc tcactctgcta 240
gccactcctg cctcactgtg ccatgctttc tgtaatgcac tctgggtcca gggactgctt 300
ggcaggagng tgggaagaac aagaagttta gggccttccc agtttcttag ggctgtctg 360
gagaggggaac tagcgtttac tgagttttta cgatgt 396

```

<210> 1149

<211> 540

<212> DNA

<213> Homo sapiens

734

<220>
 <221> misc feature
 <222> (136)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (445)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (474)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (506)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (515)
 <223> n equals a,t,g, or c

<400> 1149
 gagaggaaaa ggaatgaaga aaaatgaata gatcttcaga tacctgtgag acaccctcaa 60
 gtgtgccaat gtatacctaa cgggagtcctc agaagacagg agagaaaaaa agaaagaaat 120
 aaaaagaata tttganttta aaattgcttg aaaatgtctc aaatttgatg aaaaatatta 180
 ctctgcacat tcaaccctatg aactataagt tgtataaaat caaaaagtgt cacaccaagg 240
 cgtgtcatag ccaaactgtc aaaagccaaa gacacagaat cttgaaagca gtgagagcaa 300
 agcagacaag ggatccccaa taggattaac agcagatttc tcatccagaa gccatgcaag 360
 cccagaaaagg ctatgggaga catactccaa aatgctgaaa taaaaactgt ccaacaaaca 420
 tttccccatc cccagcaaaa atccnaaaac aaaggaaaat cttgttgcat gttnaacctg 480
 aataaaattg gtttccccgc cgggtngttt ggatnaaatt ttccccccct taatgttcca 540

<210> 1150
 <211> 1481
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<400> 1150
 agaggcttgg cttngaaaca tccggggaga gttgggcagg ctgctcttta tggatgtggc 60
 tgctgggctg aaaatactgg agctcataac ccctactcca cagctgtgag tacctcagga 120
 tgtggagagc atcttgtgcg caccatactg gctagagaat gttcacatgc tttaacaagct 180

735

```

gaggatgctc accaagccct gttgggagact atgcaaaaaca agttttatcag ttcacctttc 240
cttgccagtg aagatggcgt gcttggcgga gtgattgtcc tccgttcatg cagatgttct 300
gccgagcctg actcctccca aaataagcag acacttctag tggaatttct gtggagccac 360
acgacggaga gcatgtgtgt cggatatatg tcagcccagg atgggaaagc caagactcac 420
atttcaagac ttctctctgg tgcggtggca ggacagtctg tggcaatcga aggtgggggtg 480
tgccgcctgg agagcccagt gaactgaccc ttcaggctga gtgtgaagcg tctcagaggc 540
atttcagaac ctgagctttt ggggggtttt aactgaagtt ggttgtttta tctttcttgt 600
tttataattc ctattgcaac ctctgtcact gctcgagaca caagtgctgc tgtagttagc 660
gcttagtgac acgcgggcct ttggtgggtg agcgggactg tgtgtgagtg tgtgcgcgta 720
tgtgcgcaca tatgtgtatg tgtggagtat gtgtgtttgc ttctccgtgg atgaaataga 780
aactcctcat tgtgtgacca ggaatggtta aatcatcttt acaaaatgtg tgctttaact 840
gtttacaagt aaaacctaaa gttgcaggaa acatttttta tttcgtaaag aggtaccaac 900
tgtcgtgat gtgatatgtc agaactgaag agtaaatacta ctgttttaa tgacttgaca 960
gtggtagtgc tccatttaat aacagtaata agtaataaag tgtttttatt tggttaacca 1020
gtttaagtgg atcctgtggg aacttaaact gktgktctca tcccytatat ggggcatttt 1080
tctttaacaa agaatggttt cagtgaacaa atctagcaga gaattaatgt cagaaccttt 1140
ttaaataata gtctgattga tacagtttgt acttatttca tcaagctttt ctaagcttaa 1200
atattgcata gcttcgagct gtatggacta tattatgaaa gaatatgtaa agagaacata 1260
cagtaatgca cagtccttaa tttgtgtata atggaaagtt atttacaata taacactgta 1320
aataagaaaag caaagtttat gggaaaattc aatattatct ttgtttttgt ttaaataatat 1380
ttttaagata aaggcmcaaa aataaaagaa gcgtattact gggatatagta tgtgactcct 1440
cttctcagac taataaatta tcttttgaat ccttaaaaaa a 1481

```

<210> 1151

<211> 1092

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1083)

<223> n equals a,t,g, or c

<400> 1151

```

ctttaatttt gagtttaaac ccaagtttat tggcagactc ccttttgacc tccctttgcc 60
tccccatctg gtgctttctt gcactacac cccagggccc tgtggtgggg ctgcaggggg 120
aagctgtgca cctgagatga ggctggaacg ggaattggcc tctctgctcc cttcttcagt 180
aagcaaggag ccccgccctt caggcccagc ctctgnmaag aggtggtgga atccttgtgc 240
cgggtagtag aggaggataa gggcaaaacc aggccaggc cagtgcctgc ttggtctgga 300
tgggacactg tcagagtttg gccacagcct gtcttttact tcatccacac ctatgaagct 360
attccctaaa taaggcattt cccaagttag tcgtacctta atcagccttg agaagaatcc 420
tttctcttc tttgatagtg ggtcggggga ttcttcagga atggtttgga gctgggagt 480
ggtaggggga ttttaaattg tccatatggg agcccaaaag gaactggatg ggctgcagt 540
aggtgggggc ggggtgggcag ggaatgggag aggggaagtc ttggcaggga aatccctttt 600
ggccacacag tttacaaacc cagtatcatg tctgtctgtg tgtctctcaa ggtgagagtc 660
tgatttttat accaaagagg aaatgatttt ttttcatatt ttgtttgtct atattatata 720

```

736

```

aatatatata tacagttata tatatatata tattattttt tggttctctc tcgtttttta 780
gggaggggaag aaagtaccaa gttgcattga gctgtaatta aggaacatta taatttatga 840
cacattttcta tacttgcaaa aattatatca ttttatggat ataagagaaa aatgcctttt 900
tataaaattht caattttctga raagtgtgta atttgtctct tttctgatgt ttaaccaaga 960
ctgggtgggtga aagtaaagac agaaactgtc tcttaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aangggcggc cg 1092

```

<210> 1152

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<400> 1152

```

gcggcagtga gcattctggg tctttgatga tggatgagtc ttcacttgta aatttaaagc 60
catatgtatt aacttagttt ccttccaggc atttagtatt agtgaatata acatacggct 120
ttataatgct ccaataacag atgcctagtt gcactttgat ttaatatatg ctgggagaaa 180
agatatatga gaatttctact ataatttttt gcctagataa taggtcagaa gggttctatc 240
ccacctggaa ggtaaaagga ttgggtctta ctgatttctt gnacttctct ctggatttta 300
tgaagtctat gctatctttt tcccagaagc attaagtttg aagactcaat caccaagtgc 360
aatcaaagct accttctyct cccccaaaat taaatagaca tktttaaaca cacatacaca 420
tttcaagatc aacagarttc ccttttgagc atggaaatat agccattgct aaattacgct 480
actggactga actccaggta ttaatttcag tgggaaaatt aagaaatggt agga 534

```

<210> 1153

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<400> 1153

```

gntttcaccc ccgccgcctc tacaagatgc nggggccact taaactacgc ggaggacgcc 60

```


737

```

cagctcatcg cccaggccat tggccaggcc ttcgcgcgcg cctacagcca gttcctacgg 120
gaaagcggta ttgaccccag ccagggtgggc gtgcacccga gcccaggcgc ctgccacctc 180
cataatgggg acctggacca cttctccaac agtgacaatg ccgggaggtg cacctcgaga 240
agcggcgagg ggagggcctg ggcgtggccc tgggtggagtc gggctggggc tccctgctgc 300
ccacagccgt catcgccaac ctgctgcacg gggggcctgy tgagcgytcg ggggcctca 360
gcatcgggga ccccttgacc ggcataaag gggaccagcc t 401

```

<210> 1154

<211> 1107

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1092)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1101)

<223> n equals a,t,g, or c

<400> 1154

```

ctgacctcgg gtgatctgcc tgccttggcc tcccaaagtg ctgggattgc aggtgcaggc 60
caccacaccc ggccttgggc cactgttttc aaagtgaatt gtttgttgta tcgagtcctt 120
aagtatggat atatatgtga ccctaattaa gaactaccag attggatcaa ctaatcatgt 180
cagcaatgta aataacttta tttttcatat tcaaaataaa aactttcttt tatttctggc 240
ccctttataa ccagcatctt tttgctttta aaaatgacct ggctttgtat ttttttagtc 300
ttaaacataa taaaaatatt tttgttctaa tttgctttca tgagtgaaga ttattgacat 360
cgttggtaaa ttctagratt ttgattttgt tttttaattt gaagaaaatc tttgctatta 420
ttattttttc caagtgggtc ggcattttta gaattagtgc taataacgta acttctaaat 480
ttgtcataat tggcatgttt aatagcatat caaaaaacat tttaagcctg tggattcata 540
gacaaagcaa tgagaaacat tagtaaaata taaatggata ttcctgatgc atttaggaag 600
ctctcaattg tctcttgcac agttcaagga atgttttctg aattttttta atgtttttt 660
tttttttgaa agaggaaaac atacattttt aaatgtgatt atctaatttt tacaacactg 720
ggctattagg aataactttt taaaaattac tgttctgtat aaatatttga aattcaagta 780
cagaaaatat ctgaaacaaa aagcattggt gytggccat gatacaagt cactgtggca 840
gtgccgcttg ctcaggaccc agccctgcag cccttctgtg tgtgtccct cgtaaagttc 900
atttgctggt attacacaca caggccttcc tgtctggtcg ttagaaaagc cgggcttcca 960
aagcactggt gaacacagga ttctgttggt agtgtggatg ttcaatgagt tgtattttta 1020
atatcaaaga ttattaaata aagataatgt ttgcttttct aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa ananaaaaaa naaaaaa 1107

```

<210> 1155

<211> 619

<212> DNA

738

<213> Homo sapiens

<220>

<221> misc feature

<222> (563)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (615)

<223> n equals a,t,g, or c

<400> 1155

```

atctttccat atttactgag tttaaagtga tcattctcaga gagaaaagaa aaactaaata 60
trgaaaagtg catggcagaa gctgaaatga gctcaagcag tactaacctt ggaaccattc 120
tgggtaccca aaagaaaaat ttaaaatcaa gatgagtaaa aggagaatgg tctcaatatc 180
ctcaaaaatg cagtaagaga agtaattccc cactgaaaat gtctctcttt ctttctatgt 240
tataccctgg agtcctgggt gaggggtggg ggaatcagaa aagtaggttt acatttaaca 300
tttttcttaa ctacattcac ttcttaaaaa ggaacaagaa gtgtaaataa gtatgtatag 360
agtgagggat taagcatatt tgcattgggg actcgtgtat tatgctttta agtcaaaatt 420
aatattctca aattcgaatt tgatagctat tatttctaaa tctttttaat cctcaatttt 480
cctggtaacc ttctttcaag agtctccttc ttctaaaagt tgccaaaccc tttatattta 540
agctttttcc actcaggact canttagagt ggcaacaggg aaagggatgg tcccatntga 600
actttgccac tgacnaaac                                     619

```

<210> 1156

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78')

<223> n equals a,t,g, or c

<400> 1156

```

aattcggcac gagcaaagaa gctgctaaca gatggactga taacatattc gcaataaaat 60
cttgggctac tttatttntc tggcgtatct cttccacaac ttgcggatca cagtctttgt 120
ggaagaaata cgccaagcaa ataaagtagc caaagaagct gctaacagat ggactgataa 180
catattcgca ataaaatctt gggccaaaag aaaatttggg ttgaagaaa ataaaattga 240
tagaactttt ggaattccag aagactttga ctacatagac taaaatattc catggtggtg 300
aaggatgtac aagcttgtga atatgtaaat tttaaactat tatctaacta agtgtactga 360
attgtcgttt gcctgtaaat gtgtttatca ttttattaat gttaaataaa gtgtaaaatg 420
cagatgttct tcaccctttt tggtagaaca aaagcaggat gataaccata tcccccatg 480
gctcatcaaa gtaggacact aaaaatccat ccattctcagt caaagtcgag c 531

```

739

<210> 1157

<211> 826

<212> DNA

<213> Homo sapiens

<400> 1157

```
gggtcgaccc acgcgtgtgg cactcggcgg tcgaaagggg agttcaagga gacggggggcg 60
acgcggctga gggcttctcg tcggggtcgg ggctgcagcc gtcatgccgg ggatagtgga 120
gctgcccact ctagaggagc tgaaagtaga tgaggtgaaa attagttctg ctgtgcttaa 180
agctgcggcc catcactatg gagctcaatg tgataagccc aacaaggart ttatgctctg 240
ccgctgggaa gagaaagatc cgaggcgggtg tttagaggaa ggcaaactgg tcaacaagtg 300
tgctttggac ttcttttaggc agataaaaacg tcactgtgca gaggctttta cagaatattg 360
gacttgcatt gattatactg gccagcagtt atttcgtcac tgcgcaaac agcaggcaaa 420
gtttgacgag tgtgtgctgg acaaactggg ctgggtgctg cctgacctgg gagaactgtc 480
aaaggtcacc aaagtgaaaa cagatcgacc tttaccggag aatccctatc actcaagacc 540
aagaccggat cccagccctg agatcgaggg agatctgcag cctgccacac atggcagccg 600
cttttatattc tggaccaagt aaagatgggt ccgtggccca cactcgggtca tgtgctcaga 660
caacgactga tgaaaacgcc catgcgggtt gcactgactg atagtgtgtt ctttccggga 720
tcacaaacat taacaaaaaa gttaacttat gtgacttggc agttattcta taccatttcc 780
tgtccattaa aattttttaa ggaaaaaaa aaaaaaaa aaaaaa 826
```

<210> 1158

<211> 614

<212> DNA

<213> Homo sapiens

<400> 1158

```
ggcctcttca cgcgtttccc gaggccgggc gcacgaccct gcggctcccc gcccacgaca 60
ccccggggc cggcgcaagt cagctgctgc tctcggaactg cccccagac cgcctgcgcc 120
gcttctctcg cacattgccg ctcaagctgg ctgcggcccc gggtcccggc cggcactccg 180
cccgagcgca cgtgctgggc ccgcgccgcg gatcttcgtc accatcagcc ctgtgcagcc 240
cgaggagcgg cggctcaggg cggccaccgc ggttcgggac actacgctgg tgaagcggcc 300
tgtggagccc caggctgggc cgagcctagc acagaagccc caaggtggcc cctgcctgtg 360
aagaggctga gcttgccctc caccaagcca cagctttctg aggaacaggc tgctgtgctg 420
agggccgtcc tgaaagccag agcatcttct tcaactgggag tgcaggaaca ggggaagtc 480
atctgctaaa gcgaatcctg ggctcactgc cccccacagg cactgtggcc actgccagca 540
ctggggtkgc agcctgccac atcgggggca ccaccctcca tgcctttgca ggtaagtagg 600
aaccctagg gctt 614
```

<210> 1159

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

740

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<400> 1159

```

gcancagtga caccnaaccc tactaaaagg gaacaaaagc tggagctcca ccgcggtgca 60
gnccgctcta gaactagtgg atcccccggg ctgcaggaat tcggcacgag ngagagaact 120
agtttcgagt ttttyttttt wtttttttca tgggtaacaa cgtttattaa aatctggcca 180
ttttctacat ctcaaagagg agataaccca ccagaggctt aggtaacata attgtgttta 240
acgtaaatat acacagatac caataggcgg ttaagccatg ggacagggcc gcagatggag 300
actgctcaag gtcaaagggg tctccagctg ggaccctgca cctgggttcgt agccccctctg 360
cagacgcaca gtgcctcacg cctgctgcaa cctggaacct tgaggccttc atgtcagtgc 420
aggacaagag tcatgtctgt ccatagattg gggctggaaa ggactttctg ccactggagc 480
ttcgatttg agcatgcatc cccgccaaac gctgtgtctc cctttgaacc aagtctggtt 540
cctccaagca agcggkcggt cattccaaag agggcctgat cccagacagt taac 594

```

<210> 1160

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 1160

```

aggaactctg gtctccttgc ctagtgcttt tcaaaaactct gtgctacaca ggagtggatc 60
caggcctgaa ggtcatacaa ttctggggac tctctttaag aaaaagaatt ctaaaatata 120
ttacttttgc aaacattayg aaaatatact gccacattaa tatgttgcta gggccccctgc 180
taggacctta agaaggagct catgtgagtc aggaccctga atgttaggcc tcgttagctc 240
tatggttcat atgcttcttg aaccaagtca cagggcactt cccagccaca ttgccaggca 300
acaggactaa actacctcca aagcaagcan tcttttcagt tttgactgan tgatgttga 359

```

<210> 1161

<211> 633

<212> DNA

741

<213> Homo sapiens

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (606)

<223> n equals a,t,g, or c

<400> 1161

```

ttcctttttt tttttctcca gatcccacgt ttcgctcttg ttgcccacag ctacttactt 60
cattcccat gggtcacgtc attcatccac attaaccaat ttcctcactc caagctcttt 120
tctagagata atctccagtc cctgtgcaga aactgtcatt gcactttctg ctgaaatggc 180
agtttcttct cagcaagggtg agattatgga atccagaatc ttttttcagg ggtcacatgc 240
ccatttcccc acttgcatga atgtcgacac tgcagccaca gttttggccg taaatgtgaa 300
tttggaagt aaccactgtt cccagggaaa tgtcccaatc agaagaagat tatctgggac 360
actgatactg acagggagat gggacattct gagggacccg gaggcagggt gccacctcct 420
caacttcctt gagggctgcc taggaatctg tttcctcttc attctggaat tattcttctt 480
ctttatgggc tgacacaaaa catgggaacc ttcacaaagt ccactgttaa cagcttttwt 540
ttttgtggar gtkgarggac atggaggacg tttttaaggc caaagtttat ttngagttgg 600
ggacantttt gtggtttttt ttttttgagg aag 633

```

<210> 1162

<211> 1422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1421)

<223> n equals a,t,g, or c

<400> 1162

```

aattcggctt tcgagcggcc gcccgggcag gtactttctt actgagccct ctattttctt 60
tattttaata atatttctcc ccacttgaga atcacttggt agttcttggg aggaattcag 120
ttgggcaatg ataactttta tgggcaaaaa cattctatta tagtgaacaa atgaaaataa 180
cagcgtattt tcaatatttt cttattcctt aaattccact cttttaacac tatgcttaac 240
cacttaatgt gatgaaatat tcctaaaagt taaatgacta ttaaagcata tattgttgca 300
tgtatatatt aagtagccga tactctaaat aaaaatacca ctgttacaga taaatggggc 360
ctttaaaaa atgaaaaaca aacttgtgaa aatgtataaa agatgcatct gttgtttcaa 420
atggcactgt ctytttttca gtactacaaa aacagaataa ttttgaagtt ttagaataaa 480
tgtaatatat ttactataat tctaaatggt taaatgcttt tctaaaaatg caaaactatg 540
atgtytagtt gctttatttt acctctatgt gattattttt cttaatgttt attttttata 600
atcattatth ttctgaacca ttcttctggc ctcagaagta ggactgaatt ctactattgc 660
taggtgtgag aaagtgggtg tgagaacctt agagcagtg agatttgcta cctggctctg 720
gttttgagaa gtgccccctt gaaagttaaa agaatgtaga aaagatactc agtcttaatc 780
ctatgcaaaa aaaaaaaatc aagtaattgt tttcctatga ggaaaaataac catgagctgt 840
atcatgctac ttagctttta tgtaaatatt tcttatgtct cctctattaa gagtatttaa 900

```

742

```

aatcatatatt aaatatgaat ctattcatgc taacattatt tttcaaaaca tacatggaaa 960
tttagcccag attgtctaca tataagggtt ttatttgaat tgtaaaatat ttaaaagtat 1020
gaataaaata tatattatagg tatattatcag agatgattat tttgtgctac atacagggtg 1080
gctaatagagc tctagtgtta aactacctga ttaatttctt ataaagcagc ataaccttgg 1140
cttgattaag gaattctact ttcaaaaatt aatctgataa tagtaacaag gtatattata 1200
ctttcattac aatcaaatta tagaaattac ttgtgtaaaa gggcttcaag aatatatcca 1260
atTTTTaaat atTTTaatat atctcctatc tgataactta attcttctaa attaccactt 1320
gccattaagc tatTTcataa taaattctgt acagtttccc ccaaaaaaag rgrtttattt 1380
atgraatatt taaagkttcy aatgkgggtw ttttaataagg nt 1422

```

<210> 1163

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 1163

```

ggttatacct tggcggacgt gntctgcaaa ctrggagaaw gatttgcact ayctaamcct 60
rracaccygg acttgggtctg gaaggattac tattaatgga gaaagcccaa aacatcggtc 120
atggcatact ttaacaccta tagctgatga taaacttttc ctatgtggtg gactaagtgc 180
agataatata ccattaagtg atgggttgat tcataatgtc acaacaaatt gttggaaaca 240
acttacacat ttacctaaaa caagacctag gttatggcac acagcctgtt tgggaaaaga 300
aatgaaata atgggtatttg gtgggagcaa agatgactta cttgccttgg atacagggtc 360
ctgtaatgat ttattgatct ttcaaacaca gccttattca ctactcaggt catgccttga 420
ctgcattggg aaaaattcta tcatgttaga aagtcagata tctttattac ctctaaact 480
tctgcaanaa gtactcaaaa aaaaaaaaaa aaa 513

```

<210> 1164

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

743

<220>
 <221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (74)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (137)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (546)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (549)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (577)
 <223> n equals a,t,g, or c

<400> 1164
 ggtcccaagg ggtttacccg naatgtgaaa gcccnaagt gaatgaaacc tcaaattgnc 60
 ccctgtatgg cctnaagaag cccccaagtt cccagtggt tcccaagtgg gcaagtgtaa 120
 ttggaatggg gccccnccg atgccaaatg gagaatgcca aactgcccag gacaaatcca 180
 gatgaagaaa gaaactgtga agtgcccttg tttaaattgg atcagttccc gctgtgcccc 240
 atggtcagtg cattggaaaag cacaagaagt gtgatacataa tgtggattgc agtgacaagt 300
 cagatgaact ggattgttat ccgactgaag aaccagcacc acaggccacc aatacagttg 360
 gttctgttat tggcgtaatt gtcaccattt ttgtgtctgg aactgtatac tttatctgcc 420
 agaggatgtt gtgtccacgt atgaaggag atggggaaac tatgactaat gactatgtag 480
 ttcattggacc agcttctgtg cctcttggtt atgtgccaca cccaagttct ttgtcaggat 540
 ctcttncang aatgtctcga ggtaaatcaa tgatcan 577

<210> 1165
 <211> 665
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (8)
 <223> n equals a,t,g, or c

744

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<400> 1165

```

cttttttntt tttttttttt tttttttttt tttttttttt tttttttatg taaactatca 60
aatgtttatt taaatttcca tttaaaatat tttcaagtaa aatatgtaca aaaatggtta 120
taaaatgggt gaagcaacta gaagcgtgac aggtataata catataaata caacccaaat 180
tcaattcaat gcaaagttga atgacatcat attgcaccaa aattttattcc atacaaaagc 240
acatgcatca agagtttcca taagatgaaa acaaacacac ttacttcata gcatcttacc 300
acttacttac acaaatagcc cataaacacc atctggcatt gtgattgcag taccagaact 360
ctccccagag ggrraactcat ttagctatag aagantccat tttatttcac atatcacatg 420
cttgtgcagg catcagtgyt aggaacccta agaaacaacg caatccacag atgaaagtct 480
ctctgcacca tttatatytt catagataaa tatcttagtt ctaatatgat tggaatgtgg 540
atgcagaaat aaaatgcagt tttgctcttt aagaatttta tcaatgtaag acattgtatt 600
aaatttgtat aaaatacaca caatcccctc tactaagttt catgatcaca gtgccagagt 660
gaagc 665

```

<210> 1166

<211> 1077

<212> DNA

<213> Homo sapiens

<400> 1166

```

acagaaagta acaaagagga atgagccagg agaacaaact aattccttta aataaataaa 60
waaaaaaaaat gcaaatgtcc ttcaccagta aagcaagcaa attttttaaaa tctctgtttt 120
tgaaatctac tcgtcaaaga gttttcagag gcaatgaaag gggaacagat ttttcattgt 180
aatagtggaa gttgtgtgat agttaggaga tatcaacatg catttttaaat cttttcctta 240
gatgaaagag atggcttttg gcagtgtgtt ctaaccagaa agaaaggatt tgtattactc 300
tccaaatcta ctgtactgtc agcttcactc cacctgagaa aaaagaaaaa aaaattgata 360
gctcaaatgc atgtaattca taaacactgc aaaggagagc cacttggtgt ctgcagtcct 420
catattaaca gtctgtcaca gaatgcagtt aaagtattga ttggcatatg gtaatagagc 480
aaccatagcc ttaacttaca gacctgtgaa ataaagggca ttttgacctc atacaattaa 540
ttttctggat aactcttaaa gagaagtcac ttttaactgtt tttgctaact catatattgt 600
cattcaaaat atatttttaac ccaaaataag ttaaataaatt tgtgcatgtt tgtgtgtgta 660
tatatgcata cactttttta tattaaaatt ttgaggctat acagccactg tgccctgtgg 720
aataaagcca tatatataaa tgttttatat gtatatgttt tatacatawa taaaacattt 780
catctaatat atatatgtgt gygtgagtat atgtgtgcat gtttagcaga tatttgtata 840
aaatataaac actctgttgt catatwggct atatgcgaaa ttgttaattt taaaataaacc 900
tcaggccaca gacttgtagt aatcatttga aggcctcacc tagtgteccc ttggtgacgt 960
atgcagcagc tcaaattaaa cttttgtgca ttgggttatg aataatcttt tcttccaaag 1020
atggcaaaaag cctcggtttg atttgatact aaagaataaa tttctctgac tttcaaa 1077

```

<210> 1167

<211> 1177

<212> DNA

<213> Homo sapiens

<400> 1167

745

```

ggcagagctg acgttcccc cagcttagac cctgagtcgt tttcccccggt 60
aattaggttc ttctttctcca caggtgtgtg cagtggcctc agggatccgg aaagtctagg 120
actgaacttc tcctaacatc cagtaatggg gacctggaac ctgggcgtac tagagtgcgc 180
cgcgtagggc tccaggtcgc tggcttctgc gctttcttcc tctccaaagt tgagtatctc 240
ctatctgtgt cctcatacat actgccgcct gaggtgccat ggcccccaag cggggggccg 300
agtggagcac agccctgtcc catctgggtg tgggagtggg gtctctgcac gcagccgtga 360
gcacagccga ggcaagtcga ggggctgtct ctggcttctc gctccaggtc ttggctgcca 420
ccaccacgct ggccccaggg ctgagcacac atgaagactg ccttgctgga gcctgggtgg 480
ccaccgtcat cggccttccc cttctggcct tcgatttcca ctgggtgaat ggggaccgct 540
cctctgccaa cctgtctctg ggaggaggca tgggtgctggc agtggctggc ggccacctcg 600
gccctgaggg cktctgtggc tggtcaggca atgctgttgg tggtcgcagt gaccatcctc 660
attgtagctg tcttcacggc caacacttat gggatgtggg ggggggcgat gctgggtgtg 720
gcaggcctcc tgagccgggt ggaggaggac aggcctgtgc tgctaccgaa ggaggatgtc 780
tgctgctggg ccttggtgtg aggcagctgg gcttactgcc gggccctgca tacacagcgc 840
ctccagtggg agtgacagtt ggatacagcc aggcagggtt tctgccctgc cgaacacttt 900
ccctcccacc tgccctgtcc tggcgccttc tccctagggg tagactcttc tgcctactga 960
agtgggtttg ctgcacattg actggtcagg ggcagagtct ggggtgctgtc ctttggccac 1020
gtgtggggac ttgtctagac cagaatgaaa gggacagggt cccagacacg tttgggggtc 1080
ctgattctgg gctggacacg gttgtggatc cagagaagag gcctagtctc caataaatct 1140
taggaatatt gcaggaawaa aaaaaaaaaa aagttttt 1177

```

<210> 1168

<211> 698

<212> DNA

<213> Homo sapiens

<400> 1168

```

gtttaaatga gaacctaatg atacctggac aaacttctgg agaaattatc aaattgctaa 60
catgccatgt gaaatccttg aacactatta agataattac aggagattga tgtgtttgcc 120
ttagtttaaa atcttaatta gcattgacac caaaagcaac atccctatgt taaaaacaca 180
atgtgaatac tattttatta ttaccatgga accttgacct ttctttcctt cacctatagc 240
tcaatccttg tcttctccca gtcccagggc tccttatcac aaccatcatt ttgattttac 300
actggattta catgatacct tttactgaag tgcttaaate taggaaagaa taaatttcta 360
ttgactagga gtcagaaact tagggtagaa tgatggagca ttgttttata acaggrgcag 420
tttcagctt ggattcaaaa tactgattaa aaaaatttgt ttcttattat gattggatct 480
gtactttcta acgccaataa ttttaatcca gatacttttt atcttgatcc cacgcttgcc 540
ctttaacctt taccagaaat tcagagaaac agagtacata tttcgccaca caatggtcat 600
cctcactgaa tacttttatc cagaggctta caaactatga ccctccagtc aaatcctacc 660
ttgcccttgt ttttgtaaat aaagttttat tggaaacat 698

```

<210> 1169

<211> 1408

<212> DNA

<213> Homo sapiens

<400> 1169

```

taaaactatt atcttgtgtg tgtacatttg tgggtggagt ttgtgcgcct ggtttttttg 60
tttgaaaaac actgcgtggt caatgtggtt atggggggga gtgatgcatt tttttctagt 120
cttaaaacta aaaacttgag tctaccattt cttgggttgc ctgaaaatac cggccagcct 180
gatggtgttc ccgtgctgtc cctccccctt ccttctctcc cgcgtctacc tccccacccc 240
gttctgttcc cctccctccc ttctccctct cctcaaatc cgtgagtttt ggaagcccca 300

```

746

```

gggcctctct cccccgcccc tcctggatga ggccaccatc ccccaaaccg gcttgttttg 360
cagtttcccc aggatcctgg aagctcgcgtg gcgctcgagg gtggcgggga cacggggggg 420
tgggtgaagg ttcgttacct tttctagtgc gttctatcat agttaacggt tgcacacttt 480
tttaaaaaaa gtaaatggat ttgccacaat taaatgtcat aacatttatg acagaatata 540
aaatattaac atattttaag ccaagtttta ggtgtatttt ttgaatcttg gttataaacc 600
caattttaaa gggcgatgta tccagcgttg tgaaggcaac agagtgtacc catatttata 660
tttttataaa atacctataa gactgtgaat ctcttgtgct aatggctgag ttaattgaag 720
gategttttg ccccttttta gcctcccaga gcttcgagga ctcaattcga acccgaaatc 780
ctgccgtggg ggagggggtg cgtcgagacc tgggcccggg gaggttctcc tgcgtcactt 840
tctgtcctga aaggcgccct tcctggtttc tgtggctcca attttctatg cagccccaca 900
ccccttgttg ttttgatcct gagaaataaa agggaggctg aattattcaa atttaaatga 960
ggtttccctt tcatggaagt gctgctgacc cttcgtgcag aaatggggag cacttgagga 1020
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gaaatggagg cacagattac tccacaagga gttcttctgt atattttttc tagatgcaaa 1200
taccttttta attatgttaa ttaatgttaa gactttctag gcttatatcg aagctgtgtg 1260
tgggtcacgg ggtgatcact gctaactgga taaagtttgt gcagcacatt cctgagtgtg 1320
cgatattgac ctgtagccca gcgtgaaaaa tttataaata aatttttcat tgatcttttt 1380
atattaaaaa aaaaaaaaaa aaaaaaaaaa 1408

```

<210> 1170

<211> 824

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 1170

```

ggcacgagcc ccccaccaag ggacagagtg caaggacatg atcgaacaga aaaagttctg 60
gtacaagatc aaccccgctg ggtgggtgagt gctgcagccc cgggcctcac atcctgccgt 120
ccctgtggga gnattggagc ggtcccagtg cccaccgctg attctytggc tccagcaacc 180
cctccaggtg gatccgtccc acgcagcctg gcctgaaaca ctgcccagcc actgggtcca 240
gtaagacaga gcctcgagtc attctgccga gaggatccag aaacacagac tttttctggg 300
gtcctggagg cttctggccc atggggagcc cctgggtccc agcgatccag ccctgatgtg 360
ctgaggggtg agggcccagc tgcagagcag agggagtggt cccccaggga ccagcagcac 420
gaaaggcaca ctgaggcaca ctggcaggcc tgggctgcag agagcctgaa ggtcatgggg 480
tagctgrtgg aagcaggaag accccataca gcagcgacca ctgaggctgg tgctgcaact 540
tctcagggaa ttgagtgtgg gctcccacca tccgcgcac tggcttcctc caaagcctcc 600
tcctcttaca tcagcaaacc ttctgttcgg tgacccctc agtgaccctc tgtgcttgcc 660
ttcgtggctt tcctcatgga ggatttcggg tcagcgctgg ggtcagaggt catttcccat 720
acccctcaa aggtacttct tgcttggtcc ccacactctg acaccctctt ctgaaatgaa 780
cacttttttg ttgttgttgt tgagacagag tgagacgcca tctg 824

```

<210> 1171

<211> 595

<212> DNA

<213> Homo sapiens

747

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<400> 1171

```
agcaactaac ttcttgtag tgatcttaca ttgctcagca agtatagcat tattgcaaga 60
tttacagaat tcaggctctt aaaagtttat attttatttc catatgtaga taagcttggtc 120
agtttactgt tggagtatca taaagttttt gttaaaatta cacaggttat taagtaaatt 180
tccaaggata aaaattatgt ttctaattaa cttgaatttt taagtaactg atgcccccat 240
gtggcaaagg atttattttg cttttgctta aacttggaga atgactgtct ttccattttt 300
ctttaaaaaa gtggacatta gtgtttataa agaagctgtt gaccaagaga cataatttga 360
attttgtaaa gctcattgcc ataaaattca cagcccccta ccctgtattg tctcacaagt 420
gcatgtaatc aagcacgtac aatgagacaa aatattggaa gctatttaat tacaaatagc 480
ataggggatt ttctgatctt atatgtgatt tcttaatgtc tttgttttgn ggcttacata 540
ggtgatgtca gttcattgat tatgaatatt ctggatacaa ctccctgcata tgata 595
```

<210> 1172

<211> 486

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<400> 1172

```
anatcaaccc tcaactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta 60
gaactagtgg atcccccggt ctgcaggaat tcggcacgag tggaacttgg actgttttct 120
gaggtattgc aagcatgaac ttttaaattg ccttggtgtg tgtgctgtgg gcttctgtga 180
tcatgaagta acatgcattt ttcttaaaac ttttcagggt ggtagagatt gcagcctgtc 240
actcyrcmca cacgtctgca gccaaagacgc aggggtgggca cgtgtacatg tggggccagt 300
gccgggggtca gtccgtgatc ctcccgacc tcaccactt ctccctgcacc gacgacgtgt 360
ttgcctgctt tgccactccg gccgtctcgt ggcnctcct gtctgtgggt aagaaagtgc 420
agggccactt caccagggga ggaatggtac taccaactga ccagttttcc tgtgtctttg 480
ctggtt 486
```

<210> 1173

<211> 1109

<212> DNA

<213> Homo sapiens

<400> 1173

```
aacaaggttc tcaagagaca cctgcctttg cagggtgggg agtccgkag gagaaggtag 60
ggaggccccg tctccactct ggccccacaa tccctgcccc tgagcagggt gagcatatga 120
```

748

```

cccgtcacct gkaggagagt gagaaggcca tgcaggagcg ggtgcagagg ctggaggcgg 180
cgcggtctgt cctggaggag gagctgagcc gagtgaagc agcggcactc agcgagcgtk 240
gccaggctga ggaggartg atcaaggcca agagccaggc ccgctggagg agcaacagcg 300
cctggctcac ctggaggaca agctgagact gctggcgagc gcacgggacg aggcgcaggg 360
cgcttgccca cagcagaagc aggtggtggc cgaggcccag acccggtca gccagctggg 420
cctgcaagtt gagggcctgc ggcggcgctt ggaagagctg cagcaggagc tgagcctcaa 480
ggaccaggaa aggggtggccg aggtgagcag ggtgcgcgtg gagctgcagg agcagaacgg 540
ccggctgcag gcggagctgg cggctcagga ggcgtgagg gagaaggcgg cggccctgga 600
gcgccagctg aaagtgatgg cgagcgacca ccgagaggcg ctgctggaca gggagagcga 660
gaacgcgtct ctccgggaga agctgcggct ccgggaggcg gagatcgccc gcattccggga 720
cgaggaggcc cagaggcgga gcttcctgca gaacgccgtc ctggcttacg tgcaggcgtc 780
ccccgtgagg accctgagcc ccccaaagtg agacaggccg ggaggaccg ggcgcagtag 840
gagtgcattc ggcggcgccc gagatggacc aggggctgcg tcccgcccgc gccgcctctt 900
tgagaccggg gtcgtctgtt ccacgcggcg gttgcggcga ctgttgggtg tgtcgcggct 960
gcgggggaac cccgtgggag gcgcctggga agggctccct accggccctt tcttcccggt 1020
cgacgccacg tgggagcaca ccgggaaggg gtcccgcggg cgcgtctccc cctcgccttt 1080
tgcgatgtca ccgtgaacgc tgcggccgc 1109

```

<210> 1174

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 1174

```

tctcccctat aggttcatag aaaaaaact cccaccttat aaaggaatct ttaaaagggt 60
cctcataaag gaacagggtt agcagaacca agttttgagt cctgggtgaa aatccagggg 120
agaatggtaa tcagtataa ccaatggcca atccaatatt aaaattagtt aacagtgacc 180
aatcttattt cacctacccc acccagagtg gcccaaagca gattgctgga tctgcctcta 240
aaccaacctt cctkcaaaa taattggggt taggttgtgt ctgctgattg tctccataat 300
ttgagatttt aacaagttga gtttggtccc caaatacctt aaaggatttt ttttttnggc 360
atctctgggg agggggagat tggacgtagg caaccaaca ggaatggaat aagaaat 417

```

<210> 1175

<211> 972

<212> DNA

<213> Homo sapiens

<400> 1175

```

aatgttgccct ttgtccaagt atagattaag gcaacaaaca tatttggtg tgtaatttga 60
agttttggac tgaaatatct ttgcaagtat ccacataaaa ttctgtaatg ccttataatt 120
atattctaatt aattatgcat tatactaaga caccattaag aacagttgag gcactacact 180
aatcaaaccc ataaatgagg aaaaaacttt taatgttctt ttctagaagt gttcaaatag 240
gtcttgatat gaagctaaaa gccttattta tattatctta atatttcggc taaaatgtta 300
agctccataa catgaattga tacaattcca attttatcaa tatttvtgtga tagaaaaatg 360
ttaatattat tcatgagcta tacagtcctt acattttttc ccttggtgta ggaacaacgg 420
aggagtttct cctctgctaa ctattcatat atgtaactgt aacaaaagt tactatgtta 480

```

749

```

tgcacacatt acaaataata taaggggaag ttttattagc ttagtaggaa attgttatta 540
ttaagggttta aaaatgagaa caggtgtgag ttttccaaaa tacttaaaaa taatagtgtc 600
aaaaattcag gggcagttaa ggagtcacatg atggaactag aggtcactat attaagtgtc 660
ataagccaga aacagacaaa cattgcatgt tctcaattat ttgcgggac taaaagtcaa 720
aacaattgaa ctcatggata tagagagtag aaggatgggt actagtggct gggaaaagg 780
gtgtgcgagg ggaactgggg atgcttaatg tgtacaaaaa ctatgtagtt agaaagtata 840
aataagacct agtatttgat agcacaaccg ggtgagtata gtcaataata gcttaattgt 900
acaaataact aagagtataa ttggattgtt tgtaacacaa ataaatactt gagtggatgg 960
ataaaaaaaaa aa 972

```

<210> 1176

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<400> 1176

```

ctcgagcggg gctggtgtga aagctgccta accacagccc catctccgcc ctgtgctgct 60
gaggggaccc cggctgccc aaggttccag gaggtctctgt ctgacttctg gctggccctg 120
gagcagctga ggggccacgc tgccatcgac tacacgcagc tgggcctgag kttcaagctg 180
caacctggga ggtgctacac aatgtggcgt cggcacagtg ccagctgggg ctctggacag 240
aggcggcagc agcctaaggg aggccatgtc caagtggccg gagggtcctt gaatggcctg 300
gactcagccc tggaccaagt gcagagacgg ggctcactgc cgcamggcag ktccccagg 360
cgagktyttc cggccccamc gtggacctga acacttggag cccgtggatt tctggcaagg 420
ccaaggtngg tggcctntgc cat 443

```

<210> 1177

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<400> 1177

```

ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagtc tggagacaag 60
ctgaaacttg accagactca tttagagaca gtaattccag caccaggaaa aagaattcta 120
gttttaaatg gaggttacag aggaaatgaa ggtaccctag aatccatcaa tgagaagact 180
ttttcagcta ctatcgatcat tgaaactggc cctttaaaag gacgcagagt tgaaggaatt 240
caatatgaag acatttctaa acttgccctga gtttgaaaat ttgttaacaa tacattaaaa 300

```

750

```

tcttaaagca tcaaattggt gttcgccaag gcattatgag actctactgt gttagggtat 360
attcttttgt ataaaacaaa cagggttttg aaaatattac tgtatagtta gttgttcagc 420
taaactttga gaagaattta attatgtctc atgaggatc aaactatgta attttgtcct 480
tgttattttt gtttcctttg taatttactt gatgagttta tatcttcatt aaagaatgtt 540
attataaaaa aaaaaaaaaa aaaactcgag ggggggcccc ggtaccncaa t          591

```

<210> 1178

<211> 460

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<400> 1178

```

aattnttcn cctgatanga tttcagcaaa ttctgatanc ccgggtatta cttcttaatg 60
catttttcta acatttgaca aacatctccc aatatgtaga ctcccactct cctgatgcta 120
atcagtatca gacaatggaa gtaaattttc ctgcttttct caacttttcc tcaaattcat 180
gttagtgaag tactttcatt tggccatcat tatttatcaa ccttaagaaa catgcctatt 240
gacgaagtaa atatactagg aattcaacgt atctacggga atgtggacaa agacatatac 300
caagacaagg cactagagtg aaaagccatt aaaataaaat gctcagcagc aaaggatttg 360
taatggttaa cttgcaatat rtccatatgg tgtaatatata cagtcattag aaatgacatt 420
tgcgtaagga tctgagtggg aactgataca gcctgtcgga          460

```

<210> 1179

<211> 567

<212> DNA

<213> Homo sapiens

<400> 1179

```

gagacaacaa aacaaacaca gaaaaaagaa cataataaca gagacaaaat aaaattcaga 60
caacagtawa ctgaasmcat tttaaaaacc agaatatgta gtctacggat atttttttatc 120
ataaaaatga tctttggcta aacaccccat ttactaaag tctcctgcc aggtagtctcc 180
cactgatgga aatgtttatg gcaaataatt ttgccttcta ggctgttgct ctaacaaaat 240

```

751

```

aaaccttaga catatcacac ctaaaatatg ctgcagattt tataattgat tggttactta 300
ttaaagaagc aaaacacagc accctttaccc ttagtctcct cacataaatt tcttactata 360
cttttcataa tggttgcattg atatttcacc taccaaagct gtgctgttaa tgccgtgaaa 420
gtttaacgtt tgcgataaac tgccgtaatt ttgatacatc tgtgatttag gtcattaatt 480
tagataaact agctcattat ttccatcttt ggaaaaggaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaa 567

```

<210> 1180

<211> 349

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<400> 1180

```

gcaatccttt cgcattctggg cagttccaaa ctagaattct tgcctgccct gcctcccatg 60
gaatgccctt accctactgc caatgtgatc tttctgaaac agcatacctg atattgtcat 120
tcccaggagc agcttccacac ctccctcagg atttaaactt taaactctac agctctccac 180
actcacctca acaatgagct cctctcatca tttcttctcc tttgtcccag tcacaggcca 240
cttttggggc atgscaaacc actttatttc tgaarsttct gccctgract gttkgytctt 300
tgactggggg gctaaggatg actgcagtca tgcaggggnc aggggnaag 349

```

<210> 1181

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<400> 1181

```

ggcagagcac tgcactccag cctgggtgac aagagcaaga ctccgtctca aaataaataa 60
ataaaaaataa aaaataaaca tgatgatcac agatgcagtc acattttctg agttcttgct 120
tctctgccag tgcccaccca gatagcctca caaaactttg acccagccac tgttagtgct 180
gccaccgscg ataaaggagc tgagcccagc aggggmactg cctggggccc tgtagccaaa 240
aggctacagc aggagctgat gaccctcatg atgyctggyg ayaaaagaat ttctgctacc 300

```

752

ctgaaagcct tatcaaatgg acaccattca tgaaagcaac tggcacaggg gnatggaaga 360
tctganggat aagctcttg 379

<210> 1182

<211> 403

<212> DNA

<213> Homo sapiens

<400> 1182

gccc aaagtc ctgg gattac aggctgagcc accgcgaccg gccctgctgt tgcttctgag 60
gtttgaaaac cgctgcctca atgctcctga ttcagctctt cttacccaaa ggttccccca 120
cctcatctac tctgttcctg cacagtcgcc cttttctctg atgccccggg caggtttctc 180
tctgccagct ccacgcttct ggagtcctcc atccgtcttg gggcccagct gccactgtc 240
tgggttcaga ccttctcaac actccctggc ttctctgccc tagttttgcc ttctccaatc 300
cactcttggt ggggtggaagt acggttacca tggtaacttg aagacaacgc aaatctgatt 360
gtatcattac aatgactggg aaaacctcca gtgccacaaa ata 403

<210> 1183

<211> 417

<212> DNA

<213> Homo sapiens

<400> 1183

gctagattaa atcgtagaat gtgtgccagc aaagcttaaa gtttccaggt tagctgaggg 60
aggccatttg gaaacttgtg tctgaactcc aataggagag agaattgtca agcaatgggt 120
cttctgccc a tttccctctg ctttgccatc ccatgggata agggaaccac ctcaggttcc 180
caatccccaa atcaatatca cagagttagt agtccaggcc ctgggctaaa attagacccc 240
atagagtttc tagtattaat tggcccatta ttttaattagt aattaatgta attagtctgt 300
agctatgttt atttgtaata tggaggatgc ctgtctgctg tacatacatc tttctaagac 360
agatcctaag ctgtgttcaa tttcttttcc agtgtaatac atttctagtc acaggac 417

<210> 1184

<211> 643

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<400> 1184

tgacacgttt aagttgatac cattgtgcc a ttcctctttt ggctcttttt ttgtccatag 60
aggcttcaag atagataggt aagagccag tagtgttcat aagaagccaa tagagagcag 120
gagccacttt atcaggtggc aggtgtcctg ggctcctg ctggctagtc ccaagcggtg 180
gtgttgccag gatgtcttgg aggtgataat gggacacaca gaggcactga gtctccatag 240
gttaaaatgc caccaaaact ggcttttgcc taatatccct cattgactat ttrgcattta 300
atatttttat tttcctgaca tttctgcaag ctttgtattt atatttccac tttatagatg 360
aggaaatttg aggctcttag aggtaaaatg acttgcccag gtcacacagg aagtggcaga 420
gacaagcttt ttaaataaga aaaaattaat aaaatataat atgagagtaa cttaaaatat 480
taataaacca caattttaaa ttaattaacc gtgataacca acattaataa aagttaagat 540

753

accaaaacac tgggtgtctaa ttctttcaac taacaacttg aattatatttc ccatttttaa 600
ttaattaacc gtgatancca acattaataa aagttaagat acc 643

<210> 1185
<211> 551
<212> DNA
<213> Homo sapiens

<400> 1185
tatataattt aatgcaaagt cttttacatt aatgtaaggg taggaaaaga gggtggagga 60
agatatgggg aggtaggaaa atgggacttt tttcctccat ttacttttga tgtttgaatt 120
tcaaacatga gtatatattgt gtattatattt gcggttaaaa aactgaaga ttgcataaag 180
atcaaagagg gaaatttaag ggaattaatg gggtatgatt gcatttggtc agaatgggtt 240
tgggtggctca tgacaacatt ttgagagaga gagattttta tggcaccaat ggcagctagg 300
ataactagtt taaagtttag ggctgtgtt aatagatttt gctttctagt ttcagaaaga 360
ttctcttata gtactgtttt aatctgtttt tctaagccct ctgatttatg tatatttaat 420
aggccacaaa ataatgtcaa atatatggca taataaccaa caaatatttg aataagtga 480
agggtactcta caaatgtcta tgggaaagac aaaaataaat aatatccctt tctttgaggg 540
attaacagtg a 551

<210> 1186
<211> 567
<212> DNA
<213> Homo sapiens

<400> 1186
aacacactat aaactttcaa ggagagagggc tgtgtcttct tcatgtttat atctgctaca 60
aactgagtt catggctttt cacacataat tgctcaacag agcaggtgcc atggaaagtc 120
aattcaatga gtaaaattac ctcaaaatag tccgttaatt cactcacctt tgatgtagac 180
agattattct gcattgatac ttatctctta ctcttaaaat tcgctatgta ttaataaata 240
ttttattgaa tattaaggaa tgatcactat tttaataaga tgttctttac catatatttc 300
tatatgtaca tgataattag aagtatcaaa ttatattgtg gaatgtaaaa gcttttcttc 360
tgaagccaag catttgtttt attgtcattt cagtggcaaa tatggacttc atattcaaaa 420
tgatgttcta tattatatttt ccttacaagc tttttgaaaa acaatttaat aattccatga 480
ttgttgtagc accactgaat tgattctgaa agcttacttt ttaataaaaa attgacctt 540
atcaagcaaa aaaaaaaaaa aaaaaaa 567

<210> 1187
<211> 566
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (529)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

754

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 1187

```
ccatctttct ctctgctcta tgagaccctc cccttcctta tttttatctc ttcccacttt 60
atgctggggc ttccctatcc tgccctgagt tatagttagt cactaacttc tcsgetggct 120
cccaccctta tcacatctca gctacatata taaactctct gttatctaag taattctatt 180
agccagaagc aattccagag tttatattag tactaggaag gtgtcatgta gcccctgtct 240
aacatttgaa ttgaactaaa atgtgaatct caataaaagc aacacagttt tcacagcata 300
tgctgataat ggcaatccaa cttcttttgc cttttcccca gagaatcctg ggaatatcct 360
gagcttggtg ctttgatgat tctatttcag ctttggtgcc ttaaaaaaaaa ttacaaatca 420
attttgaaat gtttaagttc atgattttgt tctgcagccc tagctagggg tgagccaagc 480
cttatgaaat ctaaaactcag cctaacagaa tagaaatcta taggcttang ttaagggtca 540
canggcccca gtccagngtg tgattg 566
```

<210> 1188

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<400> 1188

```
ggcagaggtc tttgaggaat tgccaccctg tcttccacga tggttgaaact aatttacact 60
cctaccaaca gtgtaaaagt gttecttttt ctccacaacc ttgccagsat ccgttggttt 120
tttaattttt tattgataac cattcttatt ggtgtgagat ggtatctcat ggtgggtttg 180
atttgcattt ctgtaatgat cagtgatgtt gagttttttt catatgattg ctggccacat 240
gtatgtctta ttttcagaag tgtctgttca tgtcgtttgc ccactttgan gagttgtttg 300
tttc 304
```

<210> 1189

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

755

<400> 1189

```
tgtgtgtaca tcacaaatct gttttcttnt gcttctcttt aaaaatgtnt cctgagtgat 60
ttcatcagca gtgctgttgc taagcctata ttttagcaact gaaaatcatg ctcagaaata 120
ctgtcatgct tttttaaaaa rgcatatcca tccctccaca catggctgat tccagaacct 180
tcatgccctt agcaaaaaat tgagctgtcc ttcagggttt caaaaaaagt actgtactcc 240
tgctgcaccc cmggctcttg gcaaggaggg gacttttgtc ctagagaatg ttctttctta 300
tgtattattg caaaacaatt ttgttcttgc atactgaagc atcactggat gaatttcttt 360
ccctgtaga caaaccgagg gtgagtattg ctctttaaat gtcagtaaat ttgttttagc 420
ttctggggca aaccttgttg tactcattct gttcctccca gcataaatg ttaggttgtc 480
ataaaatagg gcaaattgag gatagtgtaa ctactgctgc tgaataaatg ggaaatagtg 540
```

<210> 1190

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 1190

```
gcttctctaa ctaggaagta tacgtaaagg aggaattgct agggcatggg attggcataa 60
tttcaccttt tctagatatt gcccantcgc tgcccacagt gcacatacct ttccaccagt 120
cacatgtgag agggcgagatt ttccaaatgc tcatcaccac ttggcactgt gtggactata 180
atthttggcca gttaggaaat ggcattctcat tgttttcatc ttaatttgcg tcagcctgat 240
tactcattga aacttgtgan gttgagaaac ttttcttaag cttattggcc attcaagttt 300
cctcctttat gaaatggttg ttcatgtcat ttgctcattt ttatattana ttgtttttct 360
tttttccagc tkacttgtak gaactctaca tcttatcaat attaatacatt tatcgaaaac 420
tatttgggtg ccattatctt ctctagtcca atgttttttg tttgtggata tcttttataa 480
tatataant 489
```

<210> 1191

<211> 412

<212> DNA

<213> Homo sapiens

756

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 1191

```

tcaggcattg acactttgta agaaaggggg taggggacac agctgggcag gtggagtggg 60
tkggcaggat ggctgtccca gtctgcccac cttctcttgg ctctgggacc agcggcttgt 120
tctagggatt tggacctgga ggccaagggc aataggagag ggtctgaagc ctgtgctgtc 180
tgctgcttgc tgtgaatggc cctcccgggt catgacagag ctcttttggg gcaggaggtg 240
agggcagggg gccccgctcc ttggtaaggg cctgccctgg ggctcccagg gaagtgggag 300
ctggggagcc aatccaccca gaccgcgctc cacctgggag gcatttgggg ttgcaggacc 360
gagaccacac tcctctnact cacttctcca cccgccagca gctgccacag gc 412

```

<210> 1192

<211> 828

<212> DNA

<213> Homo sapiens

<400> 1192

```

gcggccgccc cgcccccgct cccgcmgccc cccgccagtc agtcagtcag tcagtcagtc 60
agtcagtcag tcaactgagcg cgcgccgccc gagctgctgg cagtcgctgc gtctctggcg 120
agggagcgcc gcgcctgggg aggaggcgga ggcagcggtt ggaggagcgc gagcgccggt 180
ttccttgccc ggggcccgcg gaaggccgac cgactgccgc gatggagcag ctatcagatg 240
aagaaattga tcatggtgct gaagaagaca gtgacaagga agatcaggac ctggacaaaa 300
tgtttggagc ctggcttggg gaactagaca aactcactca gagtttggat tctgacaagc 360
ccatggaacc agtaaaaaaga tctcctcttc gccaggaaac aaacatggcc aacttttctt 420
accgcttcty catatacaac ttgaatgaag ctctgaatca gggagagact gtggatcttg 480
atgccttgat ggctgatctt tgctctatag agcaggagct cagcagcatt ggttcaggaa 540
acagtaagcg tcaaatcaca gaaacgaaag ctactcagaa attgsctgkt arccsacata 600
cattgraaca tggcaccttg aaaggattat cttcttcata taataggata gctaaacctt 660
cccätgccag ctactccttg gacgacgtca ctgcacagtt agaacaggcc tctttgagta 720
tggtatgaggc tgctcagcaa tctgtactag aagatactaa acccttagta actaatcagc 780
acagaagaac cgcagtcagc aggcacagtg agtgatgctg aagtacac 828

```

<210> 1193

<211> 280

<212> DNA

<213> Homo sapiens

<400> 1193

```

atttaaaaga caaagtaagt aaaaatactt ttagtaggca ttcgtggatt gtgaacatcc 60
aagttatatt ggtttgtata gaatggcatt aagtaaaaaat tacagctgta taacagtagt 120
tttctaaatt gagagagtcc acattgtaat tagagatcac tgtgaccaa atgcttctcc 180
ttgatttata atgatgkact gtatttttga ctgcttatat gaaatttcag caagattgac 240
gatattataa agatgcttat aaagtgtgaa tggagacgct 280

```

<210> 1194

<211> 393

<212> DNA

757

<213> Homo sapiens

<400> 1194

```
gcattccctt tgccatcccc tggactcact cctcatccta ttccccaaaa agtgagaagg 60
gcaggctgtg tagatggcat tcctgagaat gagccagtgg agagcatctg gccctggcat 120
gtgaattcaa gcctttttccc agctgtaata accaccctct tttttccaca ggggctaaac 180
tgcacgggtca agaatagtaa gtcattcttt tctgttcttc ttcttggtgc cttcttaatc 240
aagtgaagagc ctgctgccaa cttctgacag aagtcttgcc atgccactcc aggttcaggc 300
tgtgaagctac agccatccgc aggaggggtc cggaraaat tgtggatgcg ttgcacctgc 360
gcttctgtcg agaacattca ttatgcaaaa ttc 393
```

<210> 1195

<211> 937

<212> DNA

<213> Homo sapiens

<400> 1195

```
gatggctggg ggtgggagtg taagtccctt ttcctacttt catgtaaagt gccacagggtg 60
tcttggtttg catattcaaa tattatatag gaaaaacagt ctgttatgta tttcttcacc 120
tagcttcttg taatatttat ggacgtttcc agtttttgta cttcttagc taaagcagtt 180
gcctttttgt aatggcaatt aatttatatg ataaaacttt gtatccactg tagttgacag 240
tattggttgc taattaactg ccatattgcc ctgtctttct attaaaaaaa tactgtacct 300
gtacttagag gctaacagat tcatgtggac atttaccagg caagaccaac ttgtattgtc 360
catgatttct acgatttcca ctatcttcaa atgaaaaata aacgctgagt agaactgatg 420
ttttcagact aactcctttc aacttttagc tttgggagtc ccagatttct gtttacgttt 480
gtgtcgccctg tttgtctcca aaataagttc tgcgtctctt gggtcaaaac aaatgattaa 540
ttcgcatttc ctttgaagcc attgtgaaaa ccttaaaaga aaaaawaaar araaaaagca 600
agtatctttt ccagttgggt tgtcttcagc agcaatttac tcttattgaa gctgttccct 660
cggagtgtgt gaacagactc aagatattat tataaagcat catccttcaa tcaaaggatt 720
attttataat atgtgctgtg aaattaactt gagtggcaaa gtttggtgca atgagttatt 780
tcattcaatg gtgattgatg ctgttaagta atatttttaa gtgactcgag gaaatactgt 840
gcatttacag atccatcctt aaggatgcag gtctaaaaaa agagtaagaa agaaaaatca 900
agtggtagat agataraara araraaaaaa aaaaaaa 937
```

<210> 1196

<211> 490

<212> DNA

<213> Homo sapiens

<400> 1196

```
gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc cacgcgtccg tttttttttt 60
tttttttttt tttttttttt ttttttgttt tttttttttt ttttttgttg tacacaatca 120
tttgttttat ttgaaaacat gtctacactg cattgagcac caacacagggt gtgaccaaga 180
aaccacacagt cctgtccccg cagcactggg tccagtgtat gacttgggggt ggactgttat 240
ttttcacagt gaggggggga aggataggaa agaaaagatg gccattatcc caactcctgt 300
tcaggaatct gaacaatgaa agttatttaa actcatccag ctcttctcat tccccttctc 360
tcaatcagct ggtgttcaaa tatggaatct gaggcgagc gcagtctctg gtttctttga 420
agaactttag gcacactcca ggctcaggaa aactgcattc ctagttcttt ctgattgcaa 480
tagccttctc 490
```

<210> 1197

758

<211> 1511
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (649)
<223> n equals a,t,g, or c

<400> 1197
aggaggaacc agaccgcggc cagagcgttc aggaacaaaa tggaagactg ctgcgaaccc 60
tgcccatctc tttgctatga ctaaaatgaa ttcccctatg ggnaagaagg catgtggtat 120
gacggggagt ttttatactc attcaccatt gacaattcaa cttactctct cttcccacag 180
gcaaccccat tccagctgcc attgaagaaa tgcgcggtgg tgggaaatgg tgggattctg 240
aagaagagtg gctgtggcgt caaatagatg aagcaaatct tgcctatgca tgcaatctcc 300
ctcctttgtc aagtgaatac actaaggatg tnggatccaa aagtcagtta gtgacagcta 360
atcccagcat aattcggcaa aggtttcaga accttctgtg gtccagaaag acatttgtgg 420
acaacatgaa aatytataac cacagttaca tctacatgcc tgccttttct atgaagacrg 480
gaacagagcc atcttgaggg tttattatac actgtcagat gttggtgcca atcaaacagt 540
gctgtttgcc aaccccaact ttctgcgtar ttggaaagt ttggaaagt agaggawtcc 600
atgccaagcg cctgtccaca ggactttttc tgggtgagcg acttgsggnt ctctgtgaag 660
aggtggccat ctatggcttc tggcccttct ctgtgaatat gcatgagcag cccatcagcc 720
accactacta tgacaacgct ttaccctttt ctggcttcca tgccatgcc gaggaatttc 780
tccaactctg gtatcttcat aaaatcgggt cactgagaat gcagctggac ccatgtgaag 840
atacctcact ccagcccact tcctaggaac aatggaagaa gaaaggactg aaccagggtg 900
tttttgtagt gttttctatg tgactccaag agggaatggt caagttgttt catgagtttg 960
catgggcccct tggaaaaaca ggaaaggagc aatgaagatc caagcaaac ttacttttca 1020
gcgttggtct ggaggacaaa taagaaatga aacatcctat gaaatacttt atagcacatg 1080
gcagatttgc aactagtata atgctggtga aatgctgttg gtaaagcaca tgggttcaa 1140
ctagaagatg cagttcaaaa acaagacaga ctcgagttgt tagggctgag gaaccaatca 1200
aggtagaaca aagaaaaatg tggggtaaaa gtgttgctga ttgtcaacac aaactggctt 1260
aataatatta ataagaacct gtcttattaa gactggcttt agaaccgtag gtttttttaa 1320
aaaattatta tttatttttg cctcttttgg ggaagtgggt gggtagattt aaaaaatccc 1380
ttcctgagta ataaagatac aaaatgttac tgctgataat tgtgatttgt tgagccacgt 1440
ctatattaac tatagctccc ctctattttt aaaattttac ataaaattgc ttcttcctct 1500
tttgtcaagt c 1511

<210> 1198
<211> 743
<212> DNA
<213> Homo sapiens

759

<220>
 <221> misc feature
 <222> (712)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (732)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (735)
 <223> n equals a,t,g, or c

<400> 1198
 ctatcaaaagc attgccttat actttgaagg agaaaagaga tatcttcagg ctggaaaatt 60
 ctctctgtctg tgtggccaat attcacgagc acttaaacac ttcctgaaat gcccaagctc 120
 ggaagataat gtggcaatag aaatggcaat tgaaactgtt ggtcaggcca aagatgaact 180
 gctgaccaat cagctgatag accatctcct ggggggagaac gatggcatgc ctaaggatgc 240
 caagtacctg ttccgcttgt acatggctct gaagcaatac cgagaagctg cccagactgc 300
 catcatcatt gccagagaag agcagtytgc aggcaactac cggaatgcac acgatgttct 360
 cttcagtatg tatgcagaac tgaaatccca gaagatcaaa attccctccg agatggccac 420
 caacctcatg attctgcaca gctatatact agtaaagatt catgttataa atggagatca 480
 catgaaaggg gctcgcgatgc tcattcgggt ggccaacaac atcagcaaat ttccatcaca 540
 cattgtaccc atcctgacgt caactgtgat tgagtgtcac agggcaggcc tgaagaactc 600
 tgctttcagc ttcgcagcta tgttgatgag gcctgaatac cgcagcaaaa tagatgccaa 660
 atacaaaaag aagatcgagg gaatggttca ggagaccga tatatcttga gntagaagag 720
 gccacgattc cngtnccttt ttg 743

<210> 1199
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 1199
 gagcagggaa actgtgtcct ggcagagatc gtggtcctgg gcacacagga cccctcagca 60
 cactgaggtg gagctggggc gaggggaggg ggtgcgctct gggtaactga aggtgtgaag 120
 sgcccagggc ctgtttcttg gcagtgcagg aagtccarc cccatgectg tggtagatc 180
 ccctgtaggg cccccccac catggacact tcggggcctc tacggtcttc caaagctgtg 240
 tcctcatttc cactgcagca gaggggcgtc cccagctccg tcaaacagcc ctttctgttt 300
 ctggagtcct acaagtggag gcccaaatec gttcccatgt tgaggcaagg ccctggctgt 360
 tccttcctct ctggaaaccg ccttgaactc ttcctttggg acatgcctcc tcgaccagcc 420
 ttgaaggggt gctcctctct cactacctgg aaccaaacac ccccttcctt tgtgtacaag 480
 ggcaataaag agtagacctt catcttcaa 509

<210> 1200
 <211> 266
 <212> DNA
 <213> Homo sapiens

760

<400> 1200

```

ggggagggggg atgtaaatth gataaatagg ttggtgaaaa cttatattht cttgtaaaga 60
gagagaactg agcatgttgt aggtataagg taaaaaggcg tgaagaggaa tatttcgttg 120
ataatgaaag tgagcagcta gggaaagaaa ctcccagagg aagagggagg caaggaaatc 180
aagaacacac ttaaagthtg tcagaagaag gaactthtatt tccttaaaaca ttcaagaaag 240
atgatgtcat ttcagthtatt gattgt 266

```

<210> 1201

<211> 394

<212> DNA

<213> Homo sapiens

<400> 1201

```

gtthttctaca tatcttgaaa ggcagtgcac aatgacgtgt aattatctag gtggtaaaac 60
tgaacatac thctctthc cttgaatata aaaaagcatt gtggtattag tactthttatc 120
ttggatcatt gthcagaagg aggttcagcc ccagacaaac cacaththta ctgtcatgaa 180
tggcaagaca aaatgtagag ctcaacttac ccaaaggaaa aaagggtcaa aagacaaatt 240
atggcacaaac ttagcagcca aattcttacc aagtacagac thttgacata ctgatctctc 300
thcagthtsca agthsggaaca tgcactthga atgatgtcat tcaaaattac cctgcccaga 360
cacactththc attgattctc thggagggca gthc 394

```

<210> 1202

<211> 434

<212> DNA

<213> Homo sapiens

<400> 1202

```

caaaaaggcc agaggctcac taggtcagca tcataccaaa cgcctggctt tcaccaggca 60
tcagtgtgct tcasttgaga gthtggtacc atggttaaga tcgagtccat gctaggtaag 120
thctgttagg aatgtcagth tgtattccgc ccacgtgaat gatgctgagc thaatgtatt 180
atthtgaggg gctthcttcag agcagthctc actgagctth ccattaacct acactctthc 240
ggacggctct taaaactthc aggcataaat gaaattggga agagcagagt gthgaagtct 300
atagcatggc cthctgcttg accctgagth cctgaattga atgtgggaga cacaggccat 360
actthctctag gcactcacat gtctcccttg gcataaggaa acatgttagt aatatagtth 420
thtagatcca acag 434

```

<210> 1203

<211> 425

<212> DNA

<213> Homo sapiens

<400> 1203

```

cactcggcca ggcgcggcg acctgagggg agagggaacg cagctgaaac tcgaactgtg 60
agatgcttht gacaagtht aataagggag agatggtagt aaaggagtg aagaagcgac 120
gtgaaattga aggaaaagaa aatgacctgc cthcttaccg cggthggaat acacacccaa 180
acgagaggta gcagagaagc aagcagtgca thctgttaaa aattattgtg thctcatttg 240
agagaggagg gatctcaaa taatacaact atgtgcaaag caggagtgaa aatctthctc 300
agthctctcc ccagthtgaa thcaagcctt ccacatctth cctgtatgtg cataacctatg 360
thattthtgct thcttatgaa aatgagatta tgcatactgt tcgataatct gthtcagatt 420
aaata 425

```


761

<210> 1204
<211> 689
<212> DNA
<213> Homo sapiens

<400> 1204
ttcgacccac gcgtccgccc gcgtcccagc tagagccaga ccgtcgctcc ctgccccgca 60
cgccgtcggc ctccctgccc agcagccgcc gcagcagcat gggcagcaca gcagttgcc 120
ctgacgtcaa gaaactgatg tcctcagagc agtaccacc agaggagctc ttcccgaggg 180
gcacaaatcc ttttgccact gtcaagcttc gtcccacat caccaatgac cgctcagcac 240
ccctcatccg ctgaggcggg gtccgagggtc gtacccacaca gtgcacctgc ccaggggctg 300
ttcagagctg gcaatggcag cgacagcagc aacagcagca gatccaagaa gcgggtccct 360
gagacggggg gtggctgccc tcccagacc accccggcag cctgagcagc tccaaagcac 420
tggcttgggg tccgagacct tcaaagtaaa gcaggcggaa tggggggaca ggacaatttc 480
tccccctcca ggggtccag gactctccct ggggggcccc cctcttgccc cctaacctct 540
ttcccccttt tctgcccccg tggggaggag ccccttgtag ctgctccgtg cccaacacat 600
gccctctctg tacatctttt gtaaatgatg agaaataaag gaagtggacg caaagtgatg 660
cggcaaaaaa aaaaaaaaaa aaataaaaa 689

<210> 1205
<211> 2476
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (833)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2472)
<223> n equals a,t,g, or c

<400> 1205

762

```

gaagtgctgc tagtttttat gagaagtata ttatatataa tgtgaatttt ttaaattttg 60
cttcttatac tggaaggaat tttagccttc atattgatat ctaattaatt atttaagtgg 120
aagaggctgc atcaccaattg aggtaagtga gagcaacatg ttaaagaatg atggtagca 180
gaagctgttg tatacaatct tcatgaaaat ttcagtgtgt atttttcttt ttctataata 240
cctttaactg caaagaaaag gcagtttcaa atataagaaa tttatttcag gtaagggtaa 300
tattttaata gtagtcaata atctagctta aggctgtaac tcttctatcg gggctaattg 360
tatgaatagg tgtcagtatg ttgaagatta ctttcttttg tgactttctt ctacctcatg 420
ccactgttta aaagtaaaay gtattttaat gatgttagaa taagactacc attctaaata 480
tcacctactt atgaataaca tgtaataatt ttttaacmtta atgattccmt aaaattgtat 540
tattgggatt agaattgtgyt ttatgacmgy ttagtgtttc ctctgmggca gaaaactctt 600
ttttggrgat atcttccatc aagcagtaact cgtgcccata tacaatctct tagtggctag 660
gagaaataaa taaaagggcc ataattggtt gttctctttc agacataatt tagtagggga 720
caagaagtct gttcttcagt gactacacta gagatttact ctggtgactg ctttttgagt 780
tatgggtgaa gtaaggatat gctttaccat aaccttgatt cattcaccct tgnattcatt 840
tctcgcccc gtcactgata tttccttgag catatatctc tgccatacac tttagtaggt 900
gctatagagg atacatgaaa agtatgagat ctggttccat ccagtaagac attttaatag 960
agaagatcaa aatgttacct ggcagttggg gaataatctg acttcgttgg cagttggcct 1020
taacttctta atcattgatc caggaatatt tcaaccagag acacaacttt ctggcagaca 1080
gacaaattgt acaacaccaa caatatcctg gacctgaaa ttctgtttac ttcagtccat 1140
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ggacaaaagt ggtagggaaa ttgttccctc tccacttctg aaagtatgat gatgtattaa 1260
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tttgcaattc tgaatatgat tctagtattt gtgtagatgt atttggtact ttttccccct 1560
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gtcagtagaa agcacacaag gttatgattt ttttaattac tggcttctga tttctttcac 1680
ttctgatcct tttccttttt ctcagatgta gctgagtctt gatcatttta agacaacgat 1740
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tatgcttttg tccagaagga tcaagaattc taccatccct tgggtctttg tgtataaaca 1860
atgttaaata aaggtagact cagtctttta gatattagac agttttttta gtccatggga 1920
ttgtaaatat aaacattaac tttcctataa gaatattttg gctttgtaat ctatagcctc 1980
aaattggtat ttattatgga ttcactagac aaacagctgt ttccttattg tcttttttct 2040
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ttacagtttt tgaagtcact tttgagccct catcaagctc tcattgtgat gggagggata 2160
cctttttgtt gttaaaagcc tattattggt aaaggccttt tatggaaacc aacttggaac 2220
acaaccttaa atgtggatgt atcagatttg gtttatccag ccatgggaga gaaaacaaac 2280
ctaagtttac tttacttgta catatacact acaatggata gtatatattg tgtaaaactac 2340
aatgtaaaac ctcaataaaa gtgcgctgta cttcttaatg tttattaaaa gatgtatttt 2400
tacaaaaaaa aaaaaaaagg gcgggcccgt ctanaaggat ccaagcttcc gtaccncgtg 2460
ccttgcgacg nnatta 2476

```

<210> 1206

<211> 630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (169)

763

<223> n equals a,t,g, or c

<400> 1206

```
ttcatagcct tctccctgat acccctcccc agtgtcacat ttgaagacga gcactgagga 60
tgaggaacca actgaagaat atgaaaatgt tggaaatgca gcacttaagt ggccaaaagt 120
ggaggatcct atccctgaat ctaagtttca gatgaactcc cataatgant gatgaatttg 180
tgatgaggga taacctggaa gtggtattca cacattatgc tacaataaaa ggttctaccg 240
tggagaggat tttgacacat tcagtaacta atggaacaca ccgtcaacat gaattcgcac 300
cttacatgac agaagtgatt cagggattcc tatgaataga aatgctgaga aggaacgcat 360
tttattgcag aagctaaaaa gctaaagtac cagtcactca gagagaagga aattaatgtt 420
tcttaataat cctgttaaat gtttgattgt ttttggaatg tgttattgta aagatgtcat 480
gcaggacatg tatatgttgt ctggtgtaaa atgttaacga atactttgtt cagggctcac 540
tctctctttg tcatgaaagc cagctccttg tggcgaggta aagtggaatt ccaataaaga 600
aattccttaa atcaaaaaaa aaaaaaaaaa 630
```

<210> 1207

<211> 755

<212> DNA

<213> Homo sapiens

<400> 1207

```
ggtaacaaca aaatttggtc ggacatcaac aaataaagta aagtgtcctg tatttggtgt 60
taggcatagc atggaaaacc tttttgaaaa gaataaaatc cgagcatcca tatcttataa 120
gtggactcca gaaggaagac gcttggtcac tggagcttct agtggggagt ttaccctgtg 180
gaatggactc actttcaatt ttgaaacaat attacaggct cagcacagcc cagtgagggc 240
catgacgtgg tcacataatg acatgtggat gttgacagca gaccacggag gatatgtgaa 300
atattggcag tcgaacatga acaacgtcaa gatgttccag gcacataagg aggcgattag 360
agaggccagg tttatacaca atataaccatt ttctgtagtc cctattgtca tgggttaaatt 420
attctctaa gttattctgg gtgcagagat gcattgggtc tgtcagtttc tgggaaactt 480
tctgcaccct ataaacacaa tatttttctt tgttttcaca cattcaccat ttgctgggca 540
cctttctgaa gtagtggtgt cccggtatca gcctttgcaa tatgttagag atgtactgtc 600
tgccgcattt tgcactgggt ttctcttttc atttatgatt aataatgtgt atacgttatt 660
cctttttatt atctactgtg taagacaaga atatttcatt ccaaataaag aattcagttc 720
ttaattatgc aactgaataa aatctaaagc ctaaa 755
```

<210> 1208

<211> 600

<212> DNA

<213> Homo sapiens

<400> 1208

```
accaccctga acatgcctga gcttgtcata atatgttgag taccctaaaag atttgtttat 60
attgttaatc ttagggaaaa aaaattaaaa tccagtagat cagaacatca ggctttcaga 120
tacaaattga tttactgggt tttattttgc tgattataat atttggtata ttaaggtaa 180
tctagttaac tagatgctat ttcatagatt atattgaatg atttaaaact ttattttcaa 240
ggatagttta ttttaaatgg catattgaaa acatcattat taagatccag taggtaggac 300
atttattgga ttaaaatgaa gcatttatct atgtcttttag gtgtcattgt tccctttctg 360
aattagctgt acatataagc ctccctttgg ttttaagtac tgattttttt ttaaaaaaaa 420
gagggactgt ttaccattct tccactgtgc tgttataaag ttgtatttga aaggtaatgt 480
tgtttttatt aatcttttgt cttaaaaataa tttaaagtgc tttgaatttt aaaacattaa 540
acaaatcctt aaataacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
```

764

<210> 1209
 <211> 783
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (75)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (230)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (246)
 <223> n equals a,t,g, or c

<400> 1209
 tgcctacgat tcccgcactg cccatgggga acgaatccta tatcgctgag cgcttggttag 60
 ggaatgtgga ctgtnaccct gagagtcgtc cttccctctg cctgagtcct tgagcgaaaa 120
 tattgaatag acagcaattc ctgaagtcta aacgcctccc aggactacgg aggattattg 180
 gaaagagaac aagcgaggag atacaatctt caaggactaa atggggaatn actttttagg 240
 ggtcantaga tgattgatga ttgattacta taaactgata atatgaggcc aaaactaaaa 300
 gttggaagag tgagcaagta caatggtttg ggagaggcaa tgaagaacaa agaaggtgcc 360
 agcccytact ccagacgctg tggtagcact ggtttggcag gaaaaacaat catcatttga 420
 gagggccagt ggggaagccc tgtcctcatg gaaaagctat cttctttcgt ttacactttt 480
 catggtatta tgtctactga agaggtaaaa acaccaaatt tcagagaagc tcttaaattg 540
 cccaatactt caaagcaagt ataactggtg aagcgcttgg cattgatgtc agacacccaa 600
 tgcctatgat ttattttaatg cagtagcatt aaggaggatc ctatacgtga aggaacatat 660
 tttattttct tcctttatat tttttggtta aaatatcgtc attatagtta gcaatttggg 720
 atctggctta cattgggttg taaaaataaa taatagaata aagcaaaatc agaaaacaaa 780
 aaa 783

<210> 1210
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (561)
 <223> n equals a,t,g, or c

<400> 1210
 acccaatttr ggtatgactt ggaagtgcag aaacagargg atactgttag aaaawcctaa 60
 cawtgggtctc cgtgcatgtg ttcacacctg gtctcaactgc ctttccctcc cacagacctg 120
 agtgtgaaaag actgagagtt gaggagttac tttgtggatc ttgtccaaat ttagtgaaat 180

765

```

gtggaagtca accagaccaa tgatggaatt aaatgtaaatt tccaagaggg ctttcacagt 240
ccacaggggt caaatgactt gggtaacaga agttattctt agcttacctg ttatgtgaca 300
gtgatttacc tgtccatttc caacccaaaa gcctgtcaga aagcattctt tagagaaaac 360
cactttacat ttgttggttaa actcctgata gctactctta agaataataca tgtatgtatt 420
cataggaaca ttttttctca atatttgatg gattcgctta ctgttattgt gctgagtgag 480
ctcctgtgtg cttcagacaa aaataaatga gactttgtgt ttacgttaaa aaaaaaaaaa 540
aagggggggg ccccctaaaa naacccaagc tttac 575

```

<210> 1211

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 1211

```

gggcgcggc ggaccctcgc tgccctacct ctctcgcggg ttagtgcggg gtcgggctcg 60
gccagtcctg gccagctccg ggagagcctg gccgaattc ctgcctccac cctctttctc 120
gccgcgaagg tgactgttcc ttttgcccca gccctctcag acccgccccg gattcccagg 180
catcgggaga cgcggaaaagg artggggtct ggtggaggcc ccgggcgtat cgtctctccag 240
gccgccctcc gcgggcctgc cccggccacc gctttaacgt cggagagaag gaattgggga 300
gaaargttta agagcctgcg amttcgttgc tgaacttttc cccccaaga caggcttccg 360
aaagctgctg cactggaggg atccgggacc tcagactact cgggtttggc cctggcatgt 420
gtgggagcag tttttattag agagaatgct caatttgcaa gttaatttca agtcttcanc 480
cacgtcagga aaaaaacatg aaggaattaa aggangccan gcccgnccaa agataacaag 540
gcgtncaaaa acttggaat ctataaaccc tggcc 575

```

<210> 1212

766

<211> 523
<212> DNA
<213> Homo sapiens

<400> 1212
agggttttttag gaacacaagg ttagtcagga cgtggatccc cacagtggac acgactgccc 60
caccctgccg aggtcggagg tggccatgag gagatgggct gtcgcttgct gtctgagctt 120
ccatccacga atggtgtggg agttcrggat cttcccagac attstttctt cacctttggg 180
aagatggagg gggacggtgg tggcatccct tgcagtctgt gctgcgctga cactttggag 240
aagygtctcc catctgtaga gcagaatcct ctttggagaa atgcagctgt ccttgacctt 300
gaggcagaag gcgtytccat cctgggcata tgytgcccc tccccatctg gatgcctcat 360
cttgctgtgt cattaatggg aatcttattc taacagcctc ccatgcatca actctatcag 420
tccccgaata ttatctttaa attttgtcag atcgctttgt gggtttctgg ctttttctct 480
tttctatcaa gctattcaaa gcaaaaaactg aaagtgaatt tag 523

<210> 1213
<211> 752
<212> DNA
<213> Homo sapiens

<400> 1213
gagcccccttg gccagctctt tcttggagag agaaggtgct tctttgcaa aacctaagcg 60
cctaattctgt tgacatccct tggggctcta gtagaagggc ccccttcttt gatgcagtta 120
tgccgcctta gaattcggaa gtgttttggg atccagcagc atcataagat aaccaaactc 180
gtcctcccag aggatctgaa acagtttctc ctacatcttt aaatgcatct agggaatgga 240
ttcaciaaacg atgtgaaaac attattgagt gttgtagcca ctagaatttt aaaatcaagt 300
tggatttata gagtttgact agttttttcg attagatttg tatttgttat aaacttgttt 360
atggagtttg actaattttt tctattcaat ttgtatttgt taaactcaag ccagggtkga 420
aagacactgc atacgtttgt attattagtt agaaggcatg aagacttttt tccctgcwtg 480
gagagtgtca taagtatttg ttttgcata ctactgcatg ccaagcactt tctgcatcat 540
ctaatttagc cctcacagcc actgggtcaa gatgtccaat tttccagagt aaggatagag 600
gagtcaaat caaatacagg ttttctgaca ttaacttatg tgatgacttg atcgaggcag 660
gcttttccag catcactgtc ctggttccat ctctgtcata tgggaatgaa aataaagaaa 720
catatttctt ggcttgtcta aaaaaaaaaa aa 752

<210> 1214
<211> 1088
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<400> 1214

767

```

gcgnccgctc gcccggaacc tgaggetgct gggcccaccc tcccggaacc gtccgaccct 60
cgggtggcctc ggctcggttct gccatctccg gtcctaccct ggggcggagg gtggaaggca 120
gcttccgctc aagaggagg ggctgcggtg gccaccgngg cggagscga gttattttac 180
caagaaaatg gtttgcacga ctttgaacat atactatcca tgctgatggg acaggatcca 240
atatgaatat aaatgatgga ggaagacgac gctttgaaga taatgaacat acattacgga 300
tatatcctgg ggctattttca gaagggacaa tctactgtcc gattcctgcc agaaaaaact 360
ccacagctgc tgagggtgatt gagtctctta taaacaaact tcactctgac aaaacaaaat 420
gttatgttct agcagaggta aaggaatttg gtggagaaga atggattctc aatccaacag 480
attgtccagt tcagcgaatg atgctgtggc cccgaatggc tctggaaaat cgcttaagtg 540
gagaggacta ccgcttcctt ctgagagaga aaaaccttga tggatcaatc cattatggta 600
gcctgcagtc atgggtacgg gtaacagaag aacgtcgag gatgatggaa cgggggtttc 660
ttccacagcc tcaacagaaa gactttgatg atttatgtag ttacctgat ttgaatgaga 720
aaactctctt agaaaaccta cgaaatcgct ttaagcatga aaaaatttat acctatgttg 780
gcagtattct aatagttatt aacccattca agtttcttcc tatttataac cccaaatatg 840
tcaaaatgta tgataaccac caactgggaa aacttgagcc ccacatttat gctgtggctg 900
atgtagctta tcatgccatg cttcagcgca aaaagaatca gtgcatcgtg atttcaggag 960
agagtgggtc tgggaagact caaagcacia actttcttat tcaccacctt actgctctca 1020
gtcagaaagg atttgccagt ggagtagaac agattattct tggagctgga ccagtacttg 1080
aggccgctc                                     1088

```

<210> 1215

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 1215

```

tccgtacttg aggagacggg acacacagga caagctgcag gtggtgagca ggttcacctt 60
ctattttgaa gacccgcttc ttcttcaggt acctgatctt gaaaacgaac cteccctttc 120
aggctcttgct tccctcaac ccagacaccg actcgcccaa ggtcttcca gctggctgag 180
ttggaacctg cattttttta ccacaaggaa aagaagccca gagcttacca agaataatat 240
tttattgact tgggaatgag ttttggaatc tgtattttta acaagctgcc cagtgaaaac 300
catttccctc tcgtcgtggc gcagttccag aggntgcgcc attntttccc aggtcaacag 360
tctgtgtcc ttgggggagg ga                                     382

```

<210> 1216

<211> 825

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

768

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (735)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<400> 1216

```

cncactatag ggaaagctgg tacgcctgca ggtaccggtc cggaattccc gggtcgaccc 60
acgcgtccgg cccgacgtcg cctccggcta ggatggcccc tccgggcccc gccagtgcc 120
tctccacctc ggccgagccg ctgtcccgca gcatnttcg gaagttcttg ctgatgctct 180
gctccctgct cagctccett tacgtcttct actgcctggc cgagcgtgc cagaccctgt 240
ccggccccgt cgtggggctg tccggcggcg gcgaggaggc gggggccct ggtggcggcg 300
tcctggccgg accgagggag ctggcggtgt ggccggcggc ggcacagaga aagcgctcc 360
tgcaactgcc gcagtggcgg msgcgycgrc sgcccgcgcc ccgcracgac ggcgaggagg 420
cggcctggga agaagagtcc cctggcctgt caggggtccg ggcggtccg gggccggaag 480
caccgtggcc gagggcccg cggggaccct ggcgtgctc ctggacgaag gcagcaagca 540
gctgccgcag catcatcatc ggaktgaara agggcgmac gcgggcgctg ctggagtcc 600
tgcgctgca ccccgacgtg cgcgcctgg gcgcgagcc ccaattcttc gaccgcagct 660
acgacaaggc cctcgccctg taccgggacc tgntgcccag aacctggaa gggcagatca 720
ccatggagaa gaagnccagt tattegtcaa gcgggaagcc ccgcgcgca tcttgggcat 780
gttccaagga caacaagctc attcgttggg tgnccgggaa ccggt 825

```

<210> 1217

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

769

<222> (433)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (488)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (502)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (507)
 <223> n equals a,t,g, or c

<400> 1217
 gtgaaaaaaa actatagtag acctggttatg agactgtcac tttgtacatt gttgagtttt 60
 tattatccac ctgtagacta gaggggacca tgaattcttc cactttcttc aatcccattt 120
 tctaccatgg aatcactaag agcaaagtct gctctgttcc tgaagctcta taagctacag 180
 atggataact caatgtaaat ttcattggaa aacactcatg cctaaggtgt gggccactca 240
 gagctcacca gtatgttcaa cactataact agagacactg aaactgcaaa ccaggacaag 300
 aaattgacaa cttcacgctg tagacagctt ttcccaagat gtcagaacaa gacttcctac 360
 catgatgagg ctccctaccc tcttaatttg cctagctcat gcctgcctct ttcacttgca 420
 ggataatgtt gnnattagaa tttcacagga agtatcttct gaagggttagc ttaacagaag 480
 tatcagantc tatgatata cntaccnaaa tttttac 517

<210> 1218
 <211> 774
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (63)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (67)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

770

<222> (753)

<223> n equals a,t,g, or c

<400> 1218

```

ccgacttact ttagggaang ctggtacgcc tgcagggtacc ggtccggaat tcccgggtcg 60
acncatncgt ccgaccaccc aaggggtgagg agagggggctg gaagccctgg gcattaggag 120
aagggagtggt gtgctggcat ggacatgact ggatagaatt ttctcaggag ggagcttggt 180
ggattttgaa ggtaaaactt tctgggttta tcatgtttta attttagaga cagggagtga 240
tgaatcatca ccggttggtc ccttatctaa ctccataaaa gtgggaattt caaaagaaca 300
cctcatccaa ggagctgggg cagacttcat tgattctaga gagacctgtt tcagtgccta 360
ctcatccctg ccctctgggtg ccagcctcct taccatcacg gcttcaactga ggtgtagggtg 420
ggtttttctt aaacaggaga cagtctctcc cctcttacct caacttcttg ggggtgggaat 480
cagtatact ggagatggct agttgctgtg ttacgggttt gagttacatt tggctataaa 540
acaatcttgt tgggaaaaat gtgggggaga ggacttcttc ctacacgcgc attgagacag 600
attccaactg gttaatgata ttgtttgtaa gaaagagatt ctgttggttg actgcctaaa 660
gagaaagggtg ggatggcctt cagattatac cagcttagct agcattacta accaactgwt 720
ggaagctctg aaaataaaag atcttgaacc canaaaaaaa aaaaaaaaaa aaaa 774

```

<210> 1219

<211> 556

<212> DNA

<213> Homo sapiens

<400> 1219

```

gttttagcaca aagaaaagcc atcttggtgc aaagaggctt taaattacta tggactggca 60
gtcaatcaaa atccaggaat tgatgtctga tgatcagaga gaagcaggtc ggattccacg 120
aacaatagaa tgtgagcttg ttcattgatct tgtggatagc tgtgtcccgaggagacacagt 180
gactattact ggaattgtca aagtctcaaa tgcggaagaa ggttctcgaa ataagaatga 240
caagtgtatg ttccttttgt atattgaagc aaattctatt agtaatagca aaggacagaa 300
aacaaagagt tctgaggatg ggtgtaagca tggaatgttg atggagttct cacttaaaga 360
cctttatgcc atccaagaga ttcaagctga agaaaacctg tttaaactca ttgtcaactc 420
gctttgccct gtcatttttg gtcataaact tggttaaagca ggtttggcat tagcactctt 480
tggaggaagc cagaaaatag cagatgacaa aaacagaatt ccaattcggg gagaccccca 540
catccttggt ggtttt 556

```

<210> 1220

<211> 148

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<400> 1220

```

gtgttttaatg atctgtaaaa ttagatattat cttcttttat tatgaatgtg attgtaagaa 60
acaccctaac attctctaac ttttgaaaat gaatattttg tatttctaag gamcaaggaa 120
aatatttttt aagccmatgt antacaca 148

```

<210> 1221

771

<211> 329
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<400> 1221
gggtttttcgc agcgccgggt gtgttcgggt aggtgttgcg ggcaaggaag taggcagcgg 60
cccctgagca gccgcctcgc tccggcattg cggggacacg gcggggctga ggccacgaga 120
gcaggggcccg agccccggcgg gccgtggtta cggtttttctt gcaactgaaaa actgaatccg 180
gccccgaagcg acgtgcactt tatgggtcccc acaccactcg gttaactaag aaaagacccg 240
ggcgaatgga cctaacgcaa cccgggtgck anagggcccg gtccagcagc ctctggggcc 300
cartgcgcag ggcactgcgg gccgattgc 329

<210> 1222
<211> 480
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<400> 1222
ggcagaagct tgaggtcctg aacgtgctac gcaaccctt gtctcgtgtg gatggggcgc 60
tggccgcccc ctgtgacctt gacctgcagg ccgactgcaa ctgtgccctg gagtccctggc 120
acgacatccg ccgagacaac tgetctggcc agaagcctct gctctgctgg gacacaacca 180
gctcccagca caacctctct gccttcctgg aggtcagctg cgccccctggc ctggcctctg 240
caactatcgg ggcagtgggt gtcagcgggt gcctgcttct tggacttgcc atcgctggcc 300
ctgtgctggc ctggagactc tggcgatgcg agtggccaga agccgggagc tgaacaaacc 360
ctgggctgct caggatgggc ccaagccsgr tttaggcttg cagccacggt acggmagccg 420
kagcgccccc aagccccaag tkgccgtgca ttcttgcccc tncacttccc nactattgag 480

<210> 1223
<211> 1299
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1254)
<223> n equals a,t,g, or c

772

<220>

<221> misc feature

<222> (1267)

<223> n equals a,t,g, or c

<400> 1223

```
gctggccaag gcgctgcggc ccacccaaat catcttcctc aataacacag gcggcctgcg 60
cgacagcagt cataaggtcc tgagtaacgt gaacctgccc gccgacctgg acctggtgtg 120
caacgccgag tgggtgagca caaaagaacg gcagcagatg cggctcatcg tggacgtgct 180
cagccgcctg cccaccact cctcggccgt catcaccgcc gctagcacgc tgctcactga 240
gctcttyagc aacaaggggt ccgggaccct gttcaagaac gccgagcgaa tgctacgggt 300
gcgcagcctg gacaagctgg accagggccg tctagtggac ctggtcaacg ccagcttcgg 360
caagaagctc agggacgact acctggccyc ctgcgcccgc ggctgcactc catctacgtc 420
tccgaggggt acaacgccgc cgcattctga ccatggagcc cgtcctgggg ggacccccgt 480
acctggacaa atttgtggtg agctccagcc gccagggcca aggtccggc cagatgctgt 540
gggagtgcct gcggcgggac cttcagacac ttttctggcg ctcccgggtc accaacccca 600
tcaatccctg gtacttcaaa cacagtgatg gcagcttctc caacaagcag tggatcttct 660
tctggtttgg cctggctgat atccgggact cctatgagtt ggtcaaccac gccaaaggac 720
tgccagactc ctttcacaag ccagcttctg acccaggcag ctgaccttca ccatggacac 780
tacaggccct ggaatggcca gggaggacca aaagccatgc cagctgggca tgaccccagg 840
cagccagcca caggctgaag ggggcttgtt ggctgagtga tctgcagagg agaaagcagc 900
cccagctctg ccagaggag gcgctgaagt gggacaagca caggaaagaa ggggaccagt 960
ctaggacccc aacttgactc actctaaagc tacaacccaa tggccttcga ttttcaacct 1020
ggggattagg ggagggggagg gtgccttcca gggctctact caggactaac cctaagggtg 1080
agctagtttc tgtgcctctg tgctatgttt tgaggctccc ttacccaaaa taatacccct 1140
gcctgcgtga tattctacca ttcattttaa ttctttggg tcttgagtt tttcaggagg 1200
ccttgattaa aatgcaaata cttgtctgag aaattccgct tacactttga aaanaaaatt 1260
aaaattnacc cccttggaag caaaattttt ttttttttt 1299
```

<210> 1224

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1047)

<223> n equals a,t,g, or c

<400> 1224

```
tccagagaga aaataggccg tgtctcaaag aaaggttctt ggtctatgcc tctggtctgt 60
gggctggcar ggcaaccata ccatacyccc gccagtcctc ggctcctgct gcaaagttgg 120
catgtttcac agggaaactt ttggaagagt ggctgcttat gagattccaa aatgaagtgt 180
tgGCCAACAC cgctcatggc catcctggat tttcccagtg gcttcccttc ctgctcgcct 240
ccctgaacag gggagaaagc ttaacctctc ttctcctctc caaacctttc accttgaatg 300
ggtaatgttt ggtgggggct gtctcttctt ggagaagcct tgagtcggac cattttgaga 360
tcatggagga aggatgaaga agtgaaaatg acaataatga ctctcaagag gctggcgatg 420
tgacatggca aatgtagaac tgacttaaat tgaacaaacc ctactgagc acctctgatg 480
ttgagcacct gctgaatact gagcactgaa tgggggaggg ggaggggagc acgggggtgag 540
tcaacctggg actcgggtctc agggatatgc ctaccaatag cgggtatcgt aaggcatgta 600
```

773

```

cccaaacata acggatgtaa ggcagaaagt gatcggagaa ggaatgagaa agtgtgcgtg 660
atgttaatat aaagtcatat gcagctagag cagacccagg aaagctttct ggaagagatt 720
gcatctgagg aaattcagga aggatctttg tagattgggg ggagattcta aattgaaggg 780
gtgatrgggt gaggggccag aggggaagtct gctgtgttct catgtaggat gtcagccctc 840
cctgcaactt ctcttttttg ccaatgtctt ttcactttcc tgacccttta gaatcatccc 900
cagccagacg caatcatgga agttgcctta ttgtcactgg ttaagaactt ggcgagattg 960
aagggtcttt gttattgttg ttggatatat ttgtttccca taaaagcaca tcatttcaac 1020
cctaaaaaaaa aaaaaaaaaa aaaaacncgg gggggggccc gg 1062

```

<210> 1225

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<400> 1225

```

aaaaatggga tgaaccttgg tataacccaa aaacagaaca tcaaagaaat agcagtaaga 60
ttctgagatt tatttcagac ttctttgctt ttttggttct ctacaatttc atcattccaa 120
tttcattata tgtgacagtc gaaatgcaga aattttcttg atcatttttt attggctggg 180
atcttgatct gtatcatgaa gaatcagatc agaaagctca agtcaatact tccgatctga 240
atgaagarct tggacaggta gagtacgtgt ttacagataa aactggtaca ctgacagaaa 300
atgagatgca gtttcgggaa tgttcaatta atggcatgaa ataccaagaa attaatggta 360
gacttgtacc cgaagaccaa caccagactc ttcagaagga aacttatctt atcttagtag 420
tttatcccat cttacaact tatcccatct tacaaccagt tcctctttca gaaccagtcc 480
tgaaaatgaa actgaactaa ttaaagaaca tgatctcttc tttaaagcag tcagtctctg 540
tcacactgta cagattagca ngttccaaac tgactgcact ggtgaggtcc cggcanccaa 600
cnngcacc 608

```

<210> 1226

<211> 889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (850)

<223> n equals a,t,g, or c

774

<220>

<221> misc feature

<222> (882)

<223> n equals a,t,g, or c

<400> 1226

```
atccatttta ggtactctac tgactttttc cttcacttgc caagcccttt tattgttcac 60
tgtttagaaa atagagaagg tgagacagct gggggaaaat gtggagtaaa tgataatcaa 120
atgttgaatt ctaaaagtct ctacattttac ctagggttggc tttctcccc agttcagaag 180
tttccagctt ggccaatcat cagaatcact tgaggaactt agaaagaact ccctggctgt 240
agctcctatg taggttttagg ttgagactct ggattccaca atttttaaag gttaccatct 300
gagggtttctg atcatagtct acttttgaag cagctgctgc trtttcttta ttccattgaa 360
cacceckggaa ttgacataat tttatctatc agcatttctc cccttttagt ttatttaata 420
attaacccgg tctccagggc agttttcata tgaccatgtg tatattcact gctcacgaaa 480
aagtttaatg ttagattacc aaatttaata tagttacaga attactgcat aagggtcttc 540
cttcttggag actcttacc agcatgggaa cagtgatctg cccacatgac aggggtggtat 600
gccaggcata gttaactgct tttggttggt aggtactcat cttcctttag ttacccttag 660
ttatgtggca cacatgtcct tattgcctag ttcgtcatcc acactttgga tcttgtgaaa 720
atgctgttag tatccaacct taaaatatat tagtatatgg gtttttatta aaagaattac 780
tttgaatttt ctatttaatt catatgtaaa taaaggaaca tttcatttca cttaaaaaaaa 840
ttatatcagn tattaagctg ggtgcaagtg gctcatgcct gnaatccaa 889
```

<210> 1227

<211> 739

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (678)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<400> 1227

```
ggcacgaggg gaaatgcttc tgccgcaagt ctactctcac gacccacctg aggaccacaca 60
caggagagaa accgtatgaa tgtaatgagt gtggaaaatt cttctctcgg ttgtcatatc 120
```

775

```

tcaactgtaca ttatagaact cattcaggag agaaacccta tgaatgtaat gratgtggaa 180
aaaccttcta cctgaattca gccctcatga gacatcagag agtgcacaca ggagagaaac 240
cttacgaatg taatgaatgt ggaaagttat tctcccagtt gtcatacctc actatccatc 300
atagaactca ttcaggagta aaaccctatg aatgtagtga atgtgggaaa accttctacc 360
agaactcagc cctttgtaga catcggagaa tacacaaagg agagaagccc tatgaatgct 420
atatatgtgg aaaattcttc tctcaratgt catacctyac tatacatcat agaattcatt 480
caggagagaa gccctatgaa tgtagtgaat gtgggaaaac cttytgscag aattmagccc 540
ttaatcgaca tcagagaaca cacacaggag agaaagccta cgaatgttat gaatgtggga 600
agtgtctctc tcagatgtcc tatctcacta tacatcatcg aattcattca ggagagaacc 660
tttgaatgta tgagtgtnga aagccttctc tcnggtgcat acctcactgt acatatagac 720
ccttcagggn gaaccnatg 739

```

<210> 1228

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 1228

```

ctttgttnca ttgcccattt tgaaaaaggg aattatttct cagtctttca aggcttgaga 60
ctaatatagg ccattgtgat tcaggaagaa acccaagggt ggaggggtgg atgagtaccc 120
tctgaaaaag ggaatttgct ggtgaaaaga ggctggatct tgtggaagac tgtcttgat 180
ggggaagtac tacctggaga tttcaaattc acttggcctg caaacaacag agttatccgt 240
atcttccaca tgtgaatgtc attgcaaggg tgactctaga caaactacaa accgatggac 300
cgtcaagctc cccaggagcc ccttggtatg cagcgttgct tcagagtgtt tctgttttct 360
ggaattcctt gttaggggaa tttaaagaag aaaagaaaaa cttgaattgt gttgaattac 420
tgtatctttt actttttttt tttgaaaaga taaacttgta aatagagtga tttgaaatac 480
taaaaaaaaa a 491

```

<210> 1229

<211> 1596

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 1229

```

cactggcggg tcgcaacgct gtgggcgttc caggagggtg tcgtggcgaa cctggcngct 60
gcatgagga aactgaggcc ctgagaattg actcattcag atcacttccc atgatcacgc 120
agctgagcag tttccaatac agaattcaga tttgggggttc cctacttcsa atccaggctc 180
ctgtgtcca cacttgtctt tcgtgtctca tgtttgaaga aattaatatt gtggaagaac 240
agttttaagg cttagaggaa cttgarttag gatccgtact tggcagatga ggaaattgat 300
tctcatggat gtaaattcac tgtttgaggc cacaacaggg catcatggag ggaggcttga 360
agaggaaaca ctctgatttg gaagaggagg aggagagggt ggagtggagt ccagcaggcc 420

```

776

```

ttcagagcta ccagcaagcc ctgctccgca tctccctaga caaagtccag cgccttgggc 480
ccccgagcac ccagcctccg caggcatgtc ctcattccata acaccctcca acagctgcag 540
gctgcacttc gcctggctcc cgccccctgcc ctgccccccg agccccctctt cctgggagag 600
gaggatttct ccctgtcagc camcattggc tctatcctca gggagctgga cacctccatg 660
gatgggactg agccccctca gaatccagtg actccccctg gcctccagaa tgaagtgcc 720
ccccagcctg atccagtctt cttagaagct ctgagctccc ggtacttggg ggactctggc 780
ctggatgact tctttctgga cattgacaca tctgcggtag aaaaggagcc tgcacgggcc 840
ccaccagagc ctyctcacia cctcttctgt gccccagggt cttgggagtg gaatgaactg 900
gatcacatca tggaaatcat tctgggtgcc taaaactgtg atagagggga tcgatccttc 960
ctcatgtcat cttcggtggc ctggatccct gaatgcaact ctgggtgtgt gtttttgtgg 1020
gggctcgaag cagtgactat ggcctccttt gttcccattt cagggttcca caaactgtct 1080
tgcatgtgtg tgtgtgtctg gttacccga ccttctgtga aggtgggtct tcctgaatta 1140
atztatctat tccaaatgcc ttaacgagac tctgtttctg ggagtctgat tttccactta 1200
cacatttctt ccacctttcc tgctagtctc cactccccctg tgaccactgg ggcctcaggg 1260
aagataaaga aagctgggcc tgtcgaagga tgacagggat gtgctgccag gttgctatag 1320
aaaccagggc tctgcctctt gcaccttgag ggggtgggag gggctgggtg cctccctcca 1380
ggctgaaccc cacttctctg gcaggacccc agtctcagca gcctcctgat ttcataacca 1440
ggccggacca cgtgcaatag ggtggaaacc aaactgctcc atgccgggtt atttaaaaga 1500
aaggcagagt ttgtggtggc tttttttttt ttttttggat tgtttgtaat ttttttaaat 1560
aaaagtattt tggaaggaaa aaaaaaaaaa aaaaaa 1596

```

<210> 1230

<211> 580

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (563)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (578)

<223> n equals a,t,g, or c

<400> 1230

```

cctcgagtag cacttttagtg aggctgtaag tacaggaatt attcttacct cacagacaga 60
tgagcagttg ggcttctaaa agataaagta agctccctga aatgacacag agaattcattt 120
ctctatgaaa gatcagggtc agcatccagg ttttgcaaag cccaactcag tgtacttttc 180
atttcatctt acgttgctta agaaggccag gcatgtaaca ggtaccatct gctagcgatc 240

```


777

```

actgaatgca ccttggctag cggtgggggg tgtagaagat gatgcggggt caccaagaca 300
gtacattkga gaaactgcca ttctttccct tagrtgctga ctggaaagct tctagggccy 360
awctgtgtgc cttattcagg grgacycata aagatcttgg aaagtgtaaa tgaacatgtt 420
ttatgagtag aaatgggtcca caatttagca gatagaaagc ctgggttcta gccccagctc 480
tgccattagc tgtgtgatca tagataaatt ctttccctc ttgaggtttg aacatnactg 540
actctacaaa gaancaaatt ggntctggaa gtggatanca 580

```

<210> 1231

<211> 1676

<212> DNA

<213> Homo sapiens

<400> 1231

```

ggtttcaaat atgtggtaaa attctgtgac ctgccatatt ggatttaaaa cttcatcttc 60
atcttaaaac ttcattcttt gaaatctctg aaaatcatta gtgtgcatgt attgaacacc 120
agtctttatt ctgtaattaa caccacagat ttctttcccc tcaccttatg ccattccatct 180
gtgtgttttg tttccagtat gccatgtgga agagggtgtga gcctttcttc agcccaagaa 240
ggaaacttta aacataatttg cacaataaaa tttcaaatta aacatttcaa aaaggggtgt 300
cagactagaa atacatgctc ttctgaaatt ccattgttga actgtaactc ctgtcatata 360
taccagtggt atgaggaaaa gtctctgcag ttttcacact gcccttctgt attgctgect 420
ggctgtgctc tgttgttgga actgaaatat gaaattttta ctttgaagta tgttaatgtc 480
aaagttgatc gtattaagtt tkgaaatcct ttgaggttta tctaataagt gtgttggagc 540
ttctgtctct tctggtaata ctgtaccctg ttgaaccaag aacagtttta ttgtttgttg 600
gacttcgttg gttttctaat accataacct gtgtccctgt gcagtcaggg ggtcacttct 660
ttaagatcat gtataatacg gcccgtcata tacacgtaga tagagccatg tgattccaga 720
aattagaaga ctggatctgt ggaatccata catgttaaaa ttttgccaaa atgagatgat 780
taaaattttt gtgagtttta taaactgttg cagttcgccct tactgatttt tcaatgataa 840
tactttttat gggaaggggg cttaggaaca aaaaactttg ccaagaatgc aaaatcttac 900
tggtttttta agcttgaac agttgtgtgt aaaactttta tatttgaaac gtaaactcac 960
cctttctgcc actgctttca ttgcactttt cataccaagt tctctccaac gtggtgtctg 1020
aaagattttt attatataca ctctttatgg aattcaatga agtgtggtta tgctgtgttt 1080
ctgaagtttt taggcttttc ttcatgtggc tgcctaatac tagtgtgttt ctataacttc 1140
agatgattca aaagttagt gcttcattgt agcaaaaaat gtatataact cataatatcc 1200
tacatgtagt attcaaaatc aattattaat aaccaataaa ggactcaaca cttttcatt 1260
gcgtgttctt ctttaagaca cctaaactca tatctcataa tttctgaatc cgcaatccct 1320
attcattaat tgattacagt ttttgagttg ttggaaagcc tagccctctc agattcaggg 1380
ttcagaaaga attaccaggt ctggtaaaat tgtctgacta gcccttagcc tcagaatgg 1440
caacttcata gtataagcaa agaaagtggg gatctcatat agtcagcttt ttcattgaaca 1500
ttaattcatg gtgaatgcac tcacagcaac caaaatccaa aaaaaaaaaa tgttcatcta 1560
aaaccttaaa cattagcttg gctcattgag ttcttggtac aacctgcttt tcatatgaca 1620
cagtatcaaa catgatttca gatgaaatgg gtggtgttaa tattgtgtta aagaaa 1676

```

<210> 1232

<211> 394

<212> DNA

<213> Homo sapiens

<400> 1232

```

attacaggca tgagccactg tgcccggcct tctttcttt ttaataagtg tatgtatctc 60
aaagccattg ccttctctag aaatctgttt ctctgttctg gaagagccta taaactttgc 120
cttcagttgt ttttcttttc aaaagggaac accagtggta gatgattaac tcttatttat 180

```

778

```

ttttaaaatt taatttggat ctatagtcag tatctgagat ttataggatg aacttttggtt 240
tacaaggaac agtgtagtta aaaagttagg gtgcctatgt tcttatgtaa tcatcaacat 300
gtttgttgta taatcatcaa ctttttctg aatgcaatga tgaacatttc aaacaataaa 360
tgaaaatgaa actaagtatc aggaagtagc cagt 394

```

<210> 1233

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<400> 1233

```

cttacatcta ttttgattga cttgaaataa aatttaacac ctcagggaag gcaattctca 60
tgtgttttga attatactga gcattaattc ttcaggataa ttatagactt ggaaagggtt 120
aaccaggtct cccagtcctat gctgaagttc ctttaagtga taggaggaac tcataatcta 180
caaggcaacc caatccattt ggtgctacca tcgattgtta taaagcccat ccttgggtta 240
aaatctacta tttacagttg tatttaatga ccttaattct gccctcaagc tatataaaat 300
ttggakctgt kttctacatr ataatctttt agatawctta aggtagttag tctatcctct 360
cnacccttcc cctcacagtt tttccaccct ttggagataa atatccttcg ctattccaac 420
tatttctcat atggtatcat tttaatcatc ccnattgctc cctaaggatg ttaaactttg 480
ttnatgtccc ttccaaaatg t 501

```

<210> 1234

<211> 361

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

779

<400> 1234

```

cagccccggc gtcgcgcccc ctgccccctc ccccgggggc catggggggcg cccccgggct 60
accggccctc agcttggggtg catctctctc accagctgcc ccgcgcccgc ttccagctcc 120
gcccgggtgcc cagcggtttc gcgcccaga gcaggaatac cagcaggcct tgttgctggt 180
ggcggccttg gcgggccttg gcttggggct gagcctcatt ttcacgctg tctacctcat 240
ccgcttctgc tgctgccggc cccccgagcc ccccgggtcc aagatcccc cgcgcggggg 300
aggctgcgtc acctggagct gattgtcccc ttntcgncgg ctgcactggc attggcatcg 360
g

```

<210> 1235

<211> 548

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (548)

<223> n equals a,t,g, or c

<400> 1235

```

caaaaaaaaaat aaaaaagaac agccttttta ggccacagtg acctgcgcaa tgtttatatg 60
ctttgaccta ctaactttct cctaactaaa tatttgattt taggagagtg tttaaataaa 120
ttacagtatg tctatatgat gaaatgttat ttgtccatta aaattttgtt tacaagata 180
atttttattg acataaaaaat aactttaatg taatttatgt tgaaaaagct gaatacaagt 240
ctttatatag agtaatatgt gagctgtgtt caaaaataca taggaaaaga ctgataaaat 300
gaaatatggc aaaatgttaa tagttttccc tggaatagga taataggcaa ttttaaaaca 360
gactccttta aaaaaacaaa caaacaacaaa aaacatagac ttctttatat cttttgagct 420
ccctcccttt tattatgtaa tgaatatgtg ttgcttttgt aataggaaaa taataaagtt 480
aaaatttcaa ctgcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaanccn

```

<210> 1236

<211> 866

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (112)

<223> n equals a,t,g, or c

<400> 1236

```

tgagttcctg tgtgcctgtc acccagcccc gccacaagag gtgctggggg cagtgtccac 60
accccccttt cttaggacgc ctgagttctc gatgtgactt atagggtatt tcttatggca 120
agacagttaa aacaaacttc agcgtctcgt ctgtccttct atggctgtgg cttctgatgt 180
tctaattggc ttctcgtcag ccggggctga gnaacaaaat aacatagact gtggggctta 240

```

780

```

aacagcagaa acttacttcc catgggttctg gaggttggga gtcttggatc accgtgtagc 300
atggtcaggt tcctggtgag ggtgggattc ctggctaacg taacgaaggc tccctctcct 360
gataccgtgt cactgggggt gaggcttcaa cacaggaatt ttggggggac acatcagcat 420
tcactccatc acaggtggtt agccctttaa tccacgggaa ttttgtttgg gggtgtgtga 480
gatacgggtc taacgttttc tttttcaaat acgtagccag ttgtcacatc atttattgaa 540
aaaggaatct tttctccacc gactgacatg aaatgctacc atcatcgtaa ataaaaattcc 600
cgtaaatact tgctgtctct gctgtctcag tcctgactca cgggctgagt tctctttctg 660
cacagtagca ctggcattaa ctgtgacagc ttacacagcag gctccctccc cgaggccggt 720
cagaagcatt cctcagcggg tcctacacgt ttctctctccc atgtcaagtt taggaagcag 780
tgtcaagacc cacagcagtc ctgcgggagt ttttaagggat gcacggagtt tatggggaca 840
gtttgggraa attgacattc atgtgg                                     866

```

<210> 1237

<211> 799

<212> DNA

<213> Homo sapiens

<400> 1237

```

gaaaagtgtg gaggctaggg caggcagggtt gttaggactg aagggtttgcc cattctgctg 60
cctccatctc agctccagct ccatccccct ctccacagaa agcagttggt gacacgaggt 120
tctatacttt tcttctgttg ctctcttgac ttaacgtgaa aacaggggtat atttgaacaa 180
actgtctgtc ccaggcaggg gctgggcagg gcctgtgtgc cttgctcagc ctctgacag 240
gacacttttg ttgcacttag aattttacatt ttaatggatg taaaaacaac tgtgagagat 300
gtctgggcct gcagaagtc agcattgctc aaaaaagcgt gtgttctagt gaacattttc 360
atatatatatt attggttata gcctgttaaa atattttctt ttttgtatta tttatcccc 420
tacattatgt atttatatga gggaaaaaaa ggaaaaaatt gtactttttt agtatttacc 480
tgttacaaag gacattgtgt ttctgtcat gtaaaaccag ctatttttagt tactattgta 540
ctctagaaaa gagctgtaga tttatgttaa actcgtactt acgaacaatt gtaattagtt 600
ctaaaaggca tgaactcagc tcctaactgt cactgtatag tcctgaattt gtagaactag 660
agttaattcc ctcttggaac tttctttggt cttcagtagt tacttttttc cttacctaaa 720
agggttgtct gtcaacaat tcttgaataa actttctggt atcaatttta aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa                                     799

```

<210> 1238

<211> 719

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

781

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (672)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (675)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (700)

<223> n equals a,t,g, or c

<400> 1238

```

ggtattactg gagaattgtc catatttaac ataatttaac tgtctttctg aaagaataaaa 60
gaagttttta tttttatttt ctttaggtag aacaaaaccg aataaaaacta cttaatgata 120
aagctgttgc tacatcacag cttcagaaaa aacttgggca gcttctttac ctaactaatt 180
tggagaaggt attgtttcta agacatgcta ctttttccta tgctgcatta tcataaacca 240
ctttagtgcac tcctttcata attaatggtg caaattggtg taattagtat ttggtgttat 300
atgagtcaag aacactacct atgtctctac aatagcttcr agatcacaaa agaattattgt 360
atctatagaa atttattatg cagatgatat agaaggcatg cactcgatag tagagaacaa 420
tgtaaatgga ctgtagttca aagccttgaa tagtaaaagt attaaaacat atctcgggtga 480
aactggcata atgcaattta tcacatgcat tcattcatca atacaaaaat atggtgnaat 540
ttggtattttg aaactgaagt gtgggttcgaa agctactaaa tcagagacat ggnaataaaa 600
ggagactcaa atattagtaa ntcaaaacac atgtctgggt atgacngaga ttatccggca 660
ctggtgaatg gnggncattg ttaaaataat tcatttttgn cggaataatt tgtaattga 719

```

<210> 1239

<211> 339

<212> DNA

<213> Homo sapiens

<400> 1239

```

agtctgcctc agcctcccaa agttataaga tttttttcct ctgggttttta gtaaattgttt 60
tttttgagat tgcttagcac cagaatgatt tgcaaatttg aaaataggaa ctccactagg 120
aatgccggat agaagagtgct ttcacatttg tagaggggaga caagaactaa atatcacgac 180
gtctttctga gccttttgggt ttgctaactg gcccacaaatt cttattccaa acggtataag 240
ataattatgt gtaaataaat accagctcta cttagtttta tttcatattt gtgtatckga 300
tatattaaaa tatctttttt ttttttttga aaaaaaaaaa 339

```

<210> 1240

<211> 229

782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<400> 1240

```
gcaggcgtga gccactgagc ccagcctact tttmagtttt waacataatt tttgttttat 60
ccacaacttt tcaagtattg aaagtagaat aaaaacatgg gttcttagtc ttttgcctac 120
tggtgaagcc tatgaatgcc ttcttaaaat catgttttta aatgccttaa atatatngga 180
ttacaaagga atcttattat tcgaaatagc gtnttaaaat gtttaaaaa 229
```

<210> 1241

<211> 1075

<212> DNA

<213> Homo sapiens

<400> 1241

```
gccccagctc gtgccgaatt cggcagcagc agtttttaac ataatttttg ttttatccac 60
aacttttcaa gtattgaaag tagaataaaa acatgggttc ttagtcttta gctatctgtt 120
aaagcctatg aatgccttct taaaatcatg tttttaaatg cataaaatat ataggattac 180
aaaggaatct aattatatcg aaatacagtt attaaaatgt taaaagataa gtttggtata 240
tattaatatg catgcttctt tataaatgca ttaaataaga gttaatagct atcctaaatt 300
tgaaatagtg ataagcataa tgaaaataga tgcaaaaaac taatgtgata tgaaaatatc 360
tggtgttttc ttttgatgat gaagtattgc taatattacc gtggtttatg aactatgttc 420
agaattgaag aaaatcctaa ctttcagtta gaggttagtg acgggggttc ggacacccta 480
cacaaaatac agcactttga catattgaat attttaagct gaaggcattt gaggaaattg 540
cagaagcagg aaggtgactc tgaccttctg cctgctgttc tccccagaag cagccataaa 600
acctgggaag gattttctga ccttcccctg aagtagatca taagactgtc atgtaagagg 660
tgctctctcg gcacccagag aaaaggagca tccttacctc caaaagcaca gggacacaaa 720
gaggaatcta aacaaacagg cctctcagtt tccccagtt tattacattt agcttggtca 780
cactttgccc tatgacattt ctacatcact ggctgctctt catcaaacct actataaaaa 840
acattcaagt tcaactgttt ctttgggcct ttatttctct atggagsccc tcgtgtcgtg 900
taaaacttat attaaataaa tgtgcatgct tttctcttgc taatctctct tttgttatag 960
agatctcagc cctaaacctg ggatggatag aaggaaacat atgttctccc ctacattagt 1020
aaaaataaaa atggaatttt ttacccataa aaaaaaaaaa aaaaaaaaaa aaaaa 1075
```

<210> 1242

<211> 336

<212> DNA

<213> Homo sapiens

<400> 1242

```
gatgggattg tacactttct ggttctctct caagtccaac cagtatgtgg taacctgtct 60
```

783

```

cttcccactt catttggtgc actgggtttgc agtggacaaa aggtccgtgc tcctcttcta 120
acctaatactg gactgggttg cccaaagggtt gccctgccac actgccaagt gcctaattag 180
ctgtttttctc tccaaccctt ccaaacactt atcatgagta atttctcttg tctttakagt 240
tgccaaatst aatctctgta aatacaaatg tgggtgagact tcttctcagg agtttcagca 300
aatgaaacaa taaactcttt ttaccctga aaaaaa 336

```

<210> 1243

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (752)

<223> n equals a,t,g, or c

<400> 1243

```

gggtcgaccc acgcgctccgg aatgtttttgg tgaataaatc tggtcttcag caaccctacc 60
tgcttctcca aactgcctaa agagatccag tactgatgac gctgttcttc catctttact 120
ccctggaaac taaccacgtt gtcttctttc cttcaccacc acccaggagc tcagagatct 180
aagctgcttt ccattctttc tcccagcccc aggacactga ctctgtacag gatggggccg 240
tcctcttgcc tccttctcat cctaattcccc cttctccagc tgatcaaccy ggggagtact 300
cagtgttcct tagactccgt tatggataag aagatcaagg atgttctcaa cagtctagag 360
tacagtccct ctcttataag caagaagctc tcgtgtgcta gtgtcaaaag ccaaggcaga 420
ccgtctctct gccctgctgg gatggctgtc actggctgtg cttgtggcta tggctgtggt 480
tcgtgggatg ttcagctgga aaccacctgc cactgccagt gcagtgtggt ggactggacc 540
actgcccgtc gctgccacct gacctgacag ggaggaggct gagaactcag ttttgtgacc 600
atgacagtaa tgaaaccagg gtcccaacca agaaatctaa ctcaaactgc ccacttcatt 660
tgttccattc ctgattcttg ggtaataaag acaaactttg tacctcaaaa aaaaaaaaaa 720
aaaactcgag gggggggccc gaaacaaacn gn 752

```

<210> 1244

<211> 764

<212> DNA

<213> Homo sapiens

<400> 1244

```

aaaattagac acacttttaa ccttcaaaca ggtattataa ataacatgtg actccttaat 60
ggacttatct tcagggtcct actctaagaa gaatctaata ggatgctggt tgtgtattaa 120
atgtgaaatt gcatagataa aggtagatgg taaagcaatt agtatcagaa tagagacaga 180
aagttacaac acagtttgta ctactctgag atggatccat tcagctcatg cctcaatgt 240
ttatattgtg ttatctgttg ggtctgggac atttagttta gtttttttga agaattacaa 300
atcagaagaa aaagcaagca ttataaacia aactaataac tgttttactg ctttaagaaa 360
taacaattac aatgtgtatt atttaaaaaa gggagaaata gtttgttcta tgaaataaac 420
ctagttttaga aataggggaag ctgagacatt ttaagatctc aagtttttat ttaactaata 480
ctcaaaatat ggacttttca tgtatgcata ggaagacac ttcacaaatt atgaatgatc 540

```

784

```

atgtgttgaa agccacatta ttttatgcta tacattctat gtatgagggtg ctacattttt 600
aggacaaaga attctgtaat ctttttcaag aaagagtctt tttctccttg acaaaatcca 660
gcttttgtat gaggactata gggatgaattc tctgattagt aatttttagat atgtcctttc 720
ctaaaaatga ataaaattta tgaatatgac ttaaaaaaaaa aaaa 764

```

<210> 1245

<211> 368

<212> DNA

<213> Homo sapiens

<400> 1245

```

ttttgggtgat tccgtagtca actatcgtgt tgccttagct ctcttttcaag tcacaaacac 60
agctggcctt aagtatttat ttaagcatct ttatatcctt gtttacttta aactccttga 120
attagccatg caataatttg ggtatgttgt attaagagct ctaccacatt atgggttcagt 180
cattgtataa ttaaacatga ggcatacaaga atcaaaagtt actgttttac ttgcctgctc 240
tctccattgt gtcattttac atttttagtag tactgtgttt tgtttattaa aaaaagttaa 300
tcaacatata ctatgagggtg gaaaatggta cagaggccaa atcattctag tccggagggtg 360
gcattttcc 368

```

<210> 1246

<211> 511

<212> DNA

<213> Homo sapiens

<400> 1246

```

ggcacgagga gaaaactacc tatgacagtg ccgaggagga aaataaagag aatttatatg 60
ctgggaaaaa tacaaaaatc aaaaggattt acaaaactgt ggcagacagt gatgaaagtt 120
acatggaaaa gtctttgtat caggaaaatc ttgaagcgca agtgaaacct tgcttagagc 180
tgagtcttca gtctggaaac tctacagact ttaccactga cagaaagagt tccaaaaagc 240
acatacatga taaagaagga actgcaggaa aagcaaaagt aaaatcaaaa agaagacttg 300
agaaagagga gagaaaaatg gaaaaaatta gacagctaaa aaagaaggaa acaaaaaacc 360
aggaagatga tgtagaacag ccattttaatg acagtggctg tcttcttggtg gataaagacc 420
tttttgaaac tgggttgagg gatgaaaata actctccatt ggaagatgaa gagtcattag 480
aatcaataag agcagctgta aaaaacaaag t 511

```

<210> 1247

<211> 431

<212> DNA

<213> Homo sapiens

<400> 1247

```

cggaggaaca ggttctgaat gccgcgctca gggagaaatt ggctctcctt gccgcacatg 60
ctcgagcccc gcacccaaag gtgatggggt ctgggcgtgg ggcttctctc atgtaccccc 120
ttacccgat ccttctctcc aaagtgtaac cttgcttttg gcccaacctc ccaacaggag 180
ccacctgggc ctgggccaga catgaccatc ttgtgtgacc cagaaacgct attttatgaa 240
tctccacacc tgacctgga cgggtctgcc cctctccgac ttcaactccg gccccgccct 300
tcagaggaca ccttctcat gcaccggaca ctgaggcgat gggaagcgta gaccccaaag 360
atccctggag ggctagtctg tatttttgtg ttaaactatt tgtagaata aagtaatttt 420
gctaataaaa a 431

```

<210> 1248

785

<211> 2058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1962)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1964)

<223> n equals a,t,g, or c

<400> 1248

```
cccacgcgtc cgcccacgcg tccgcccacg cgtccggatt catctaaacc cattgtaaga 60
gagtcattgga tgactgaact tcctccagaa atgaaagact ttggtcttgg gccaaggact 120
tttaagagaa gagctgatga cacatctgga gatcgatcaa tctggacaga tactccagct 180
gataggggaaa ggaaagctaa ggaaacacaa gaagcaagga agtcattccag taagaaagat 240
gaagaacata tattatcagg aagagataag agactggctg agcagggtatc ttcatacaat 300
gaatcaaaaa gatcagaatc tcttatggac atacatcata aaaagttaaa gagtaaggct 360
gctgaagaca aaaataagcc tcaagagaga ataccatttg accgtgataa agatctcaag 420
gttaatcggg ttgatgaagc tcagaaaaaa gccctaataa aaaaatctag agaactaaac 480
accagatttt cacacggcaa aggcaatatg tttttataag gggatttccc tgtgcaatga 540
agaaaagttg aagaatactc tttgtccatc tttatttctt tgtttttggc ttcttaagat 600
tagagattac tttaatctta aaaaacatac aaatttacct tgttctgtat gtccttttaa 660
ggtcattgtg aaacataaaa cgaatgtttt ttatgtagaa cagaatattc tatgtgcctt 720
tagcttctgt ggaagtatgg ggaattatgg gcttttcttc aaataattat tttaaggaggc 780
ttccattccc cctgatTTTT gtggtgtctc acaagtaccc tctaagggtct ggtcaggact 840
gaccaccaa tctctaccac agcctggacc tccttgtgaa atatacctaa cctgccctag 900
agtcagtgtg tcaagtcctt cctgtaaatc catgactttg aaatttgttg ttttttcctt 960
ttaaactgca gccagtgaat acaaatttac ttgaaaatag aggggatggg gttttgcctg 1020
ttttgtaatc agtttgcttg ttttagcact cagggtcttt tatttgttat ttaatttttt 1080
aattgttttt aagtcagaaa gatctctggg ttatctcatg tgctaaggaa aaactatttt 1140
gctytttcca actttaatag ttagtatctt taggggaggc aatcaagata agatatgcca 1200
ttaactgtta gcattgtgaa atctgtaaga ctcaatctct gatctcaacc aaagctttct 1260
gagtccttga actttgcttt gggacaactt tactttaccc atttatatgc tgtacttaac 1320
agtttgtagc taatttatgg ggtcatatct ttttttttagc taatttacgg gggtcatatc 1380
agtcattgaat agcctttttt aaaaatttaa taatccctga atacaaaaat ggaaatggaa 1440
aattttataat cataaccccc ctaattggga gtattataag tttgtaatgc ttttaagcact 1500
gcctcttaag atgataaatt tataagatga gaaattctat ttaaactatt aaactattgt 1560
taaataaatg ccaattctat aagtttatatt ttcttgcaga ttaatcccaa ttgttccact 1620
agtattctag ttttgaagag actggctgag cagggtatctt catacaatga atcaaaaaga 1680
tcagaatctc ttatggacat acatcataaa aagttaaaga gtaaggctgc tgaagacaaa 1740
aataagcctc aagagagaa accatttgac cgtgataaag atctcaagggt taatcgggtt 1800
gatgaagctc agaaaaaagc cctaataaaa aaatctagrg aactaaacac cagattttca 1860
cacgggcaaa ggcaatatgt ttttattaag gggrrttccc tgtgcattga aggaaagttg 1920
aagrattact ctttgtccat ctttatttct ttgtttttgg gntnttttagg tttgggggta 1980
ctttatctta aaaaacatac aatttacctt gttctgtatg gtccttttagg gtcagtggga 2040
acataaacgg atgttttt 2058
```

786

<210> 1249
<211> 943
<212> DNA
<213> Homo sapiens

<400> 1249
ctgcattctc tcggaagtca caccttatac cacatcaaag gacacatacg ggtgagaaac 60
cctatggatg cagtgaatgt aggaaggcct tctctcagaa gtcacagctg gttaatcatc 120
agagaattca tacaggagag aagccttatac gatgcattga mtgtgggaaa gctttctcac 180
agaagtcaca gtcacatcaat catcagagaa ctcatacagt aaaaaaatcc taggaatata 240
gttaatagta gtctttgaca gatcatcttg gacttcagga aatgcaatta tgataacggt 300
tgtagacagt cacgtcatgt taggtgtctg tactccatga ggatgagAAC tctaattgagg 360
tggtgtatgg aaagccgatc ataattcmta grgtagagkg aacctwtgac tgcagtggat 420
ctcaaaaact tttaaaacca tagacaagcc ttatagagta gaacattcac agcaaagaag 480
aatcctgtga atgtccaaaa gccttccaga agtcaagtct cttaagctat tagaaatatt 540
cccactgggg atgaggggaaa accccatgaa tgcgggaaat gaggcaatat ttttaagaaa 600
tgacagttca ttgtacataa gaaaatgctc tttaggaatga agttctatga aagtactaaa 660
tatgggacag tgcaacaagt aaccagacta ttttgtatgt tggagaattc atattatgga 720
gaacctaaca atttaaagac actgggaaca cttgcccctc agtatagtac tgtcaaggga 780
agccatacac tttttgtaga catgggtacc aaaaataccc aattctaagt ggttgacaga 840
tgttcacttt gaagtgtgaa gttttaaaaa tacgtgaata aattggttat tgaaacatct 900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aag 943

<210> 1250
<211> 2231
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (581)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1918)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2214)

787

<223> n equals a,t,g, or c

<400> 1250

```
gcgggccgcca agcgatccct gctccgcgcg acactgcgtg cccgcgcaca gangaggcgg 60
tgacgactttt acggcggcac ggtaagtgcg tgacgctcgt cagtggcttc agttcacacg 120
tggcgccagg aggcaggttg ctgtgtttgt gcttccttct acagccaata tgaaaaggcc 180
tagtaagtgg ggtcgagtcg cgggcgtgga gggacccacg tctggaagtt gctgcagcca 240
ccacgacgct cttctacggc tacggctttg tctctgctgg tatgggggtg ggagcctacg 300
cgtaggcctt ggccctatatt cctggtagaa ccgagagttg gaagtcctta cggcgatcat 360
gttaaccgcg cgggctcatt ctgcggaacg aagccgggca gagggtgggg aagactaggc 420
tagatthttcg taaggaagca gcgtctgagc caggtttgag gcccaatatt ttctttccgt 480
ggscacgtgc agactggccc aggtgagagc tgagaatcgc ctcccagact cagtgttcct 540
ctcctgcctt atgattcgtg ctgtttgaca cgaaggata ntcgttttgt gtctcatagc 600
ctgtttgtgta tgatcccat ctaatatgtg gagggtaagt gcaggggaatt ttgactccat 660
tctggatcta ctgaatttaa ttctctggga tttgaaaagta gcacgtatgt ttgcattagg 720
catttcgcat tagacttaac gttaggtttg gtagccaatc acacaagaaa aggatataac 780
tccatagtg cgttaaccag aactaatcat ttgggttaac agattttgtga tgtgtttctt 840
tgtagagtta aagaaagcaa gtaaaccgat gacctgccat aagcgggata aaatccaaaa 900
aaaggttcga gaacatcatc gaaaattaag aaaggaggct aaaaagcggg gtcacaagaa 960
gcctaggaaa gaccaggag ttccaaacag tgctcccttt aaggaggctc ttcttaggga 1020
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gagagtattg tggtagacat ggaaaagcgg cttcaatctg ggangtactg gganaagatc 2220
aattgcacag a 2231
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<210> 1251

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

788

<220>
 <221> misc feature
 <222> (379)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<400> 1251
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 acatgaaggc gtgaacaggg atgagaagag acttcctgga gaaacaaaag gactaacaat 180
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 tgatctctga ttgtgcagtg tcatgtcctg tncaccagag cccctcgtg tttgatgttg 300
 gccaatgccg ccagcatgat ctagcaggcc aawtcctwat ytaccattct yttgacacca 360
 gctggtcctt gggttcgtnc caccgatgt tccnctttt tccccatttg gg 412

<210> 1252
 <211> 416
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (326)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (367)
 <223> n equals a,t,g, or c

<400> 1252
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 aaggacattt ctttggtcag gaattgacaa gaatgagccc agagtcaccc accccaaggg 180
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 caacttcttc agaagcagtt gtctaagag cacagcttgg aaagaccttg gttcttcttg 300
 atcatcactg gggggatatt tcgcanaaca agaaattgca tgccccgtcc atcatgttcc 360
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<210> 1253
 <211> 2735
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

789

<222> (74)

<223> n equals a,t,g, or c

<400> 1253

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caacagtttc ttcagtcaac tcattcactt tcaaatagga gcagcacttt gaaatccttt 180
ttcttcactg tggattaaaa acatccaaga agccatctct gtcaagcaga attgtcatct 240
gtggtaataa gtgaccatgt cctaaatacc tttttcttag tgaggagtgt gtcattgtct 300
ttgggcatct gcaacccctg ttcaggcatg tgacctgcta aagaaataca gcctacacta 360
ccttgactac tggggaaaaat gatacttcgt aaaatgtaat aaggcaacct gttccttggc 420
ctttatctta tgttttccaa ctattactgt atctgttatt ggtctactat tacaggatga 480
ttcttcttcc tccattgatc tcaactaaat atgaattagg gtcatgcatg aaatctgaac 540
tgccgtgtcc tgagttatgg ttaagaggta tgtgctgcca ccccatgcat gtcttcccca 600
tccccatagg attttaaagt gttcaggtag caaacacagt tctgtgtgag gttttatgcc 660
tacttcctca acaccaattc agaggcaaca cctgtgcata tgtccacca aagggtgctt 720
aatacctacc ttcactatct gagaaaggac actcacagtt gcctgtgggt tatgaaagaa 780
ttggccctac gtccctgcat taagatgtta caggggacat tgggccaggc attattatat 840
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790

<210> 1254
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (609)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (651)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (682)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (683)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (692)
 <223> n equals a,t,g, or c

<400> 1254
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 cagtgaatta ttagttggaa cgccagcctg atactcctag ctatatctca ctggaaaagc 180
 attggagaaa atgaaaccat tttaatatc taagcttaaa taatagttat tataggcgtg 240
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 tgttcattaa aaatgctatt tagaaaagag tttgataaaa taaatattat wcaaaaattcg 360
 aagaaaaaag aawagagttt ctgtttcagt cacaaattag ggttattgtg atgtgtattt 420
 atgatgaccg ttgaacaaat gtgaagaata ctgtgaattc tatgacttta tcaaaatcag 480
 ccacatccag gagcttgacg ttgttgacca aatgaatgat gacatagagt agttcagatc 540
 tatcatgtgc tcttctatct aatcagtc aaatctcctg gccctcaagc caacattcat 600
 ttttttatgna taccttcttc atgattttga aatttttgata ggggtaactg nttaatggag 660
 ttcccaaagt gtagcacttt tnnaaccgca ant 693

<210> 1255
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 1255
 gctgtgtcca tgatgctttt aataaaaaa acccccactg cagtctcacc ctccaagtgg 60

791

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gtgtgggagg cggggctggc cagcagaagc ccccaggcct ggactccatc catctgctca 120
gacaacagca gggagagcgg ggggtccaggt ggggcagctc cctcccttcc acccctctcc 180
gcccctcctg agggcccatc aggagcagga cccctgtgcc tccgtggtct tgccctgttt 240
gcaggcagca tgtggccctg cagtacacac gcctggagac accacgagtc ctggcgccct 300
gtgtgcaraa aggcacctac ggcycctggaa gcccagttgc ggaaggaggt tgggggaggg 360
acgccgggag ggaggtcatg cagcctctgt ggccagcacc accctgacgg tgccctggag 420
gtggctgtca cctgaccgtg ggcagaccca cagagcaagg cc 462

```

<210> 1256

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 1256

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gggaaagctg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc cagcggtccg 60
cggacgcgtg gggcaagact tttgcccgct acctttcatt ccggcgtgac aacaatgagc 120
tgttgctctt catactgaag cagttagtgg cagagcaggt gacatatcag cgcaaccgct 180
ttggggccca gcaggacact attgaggtcc ctgagaagga cttggtggat aaggctcgtc 240
agatcaacat ccacaacctc tctgcatttt atgacagtga gctcttcagg atgaacaagt 300
tcagccacga cctgaaaagg aaaatgatcc tgcagcagtt ctgaggccct atgccatcca 360
taaggattcc ttgggattct ggtttggggt ggtcagtgcc ctctgtgctt tatggacaca 420
aaaccagagc acttgatgaa ctcggggtac tagggtcagg gcttatagca ggatgtcttg 480
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gtctccactc agtaccttgg atcagagctg ctgagttcag gatgcctgcg tgtggtttag 660
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cagttatcag ctgccattgc tccctgtctg tttccccact ctcttatttg tgcattcggt 960
ttggtttctg tagttttaat ttttaataaa gttgaataaa atataaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaa 1037

```

<210> 1257

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<400> 1257

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ttcagtcaac attcacgtct tgcagtgcat cggagaattc atactggaga gaaaccttac 60
aaatgcaaag aatgtggcaa ggtcttcagt gaccgttcag cttttgcaag gcatcgga 120
attcactactg gagagaagcc ttacaaatgc aaagaatgtg gcaaggctct cagtcaatgt 180
tcacgtctta cagtgcattc gagaattcat agtggagaga aaccttacia atgcaatgaa 240
tgccggcaagg tctacagtca gtattcacat cttgtagggc atcgaagagt tcactactgga 300
gagaaacatg acaaatgtca tgaatgtggc aaagccttta atcagggctc cacactcaat 360
agacatcaga gaattcatat cggagagaaa ccttaciaaa gcaatcagtg tgggaattcc 420

```

792

```

tttagtcagc gtgtccatct tagacttcat cagactgttc atactggaga cagaccttac 480
aaatgtaatg agtgtgggca aaacctttta aacggagctc aaacctcact gcacatcagr 540
taattcatgc aggaaagaaa ccatataaat gtgatgaatg tggcaaggta ttcaggcata 600
gttcacatct tgtaagtcac cagagaatcc aactggaga gaaaagatac aaatgtattg 660
aatgtggcaa agccttttgg cggttgtttt ccctcagcaa acaccaaaga attcattctg 720
gcaaaaaacc ttataaatgt aatgagtgtg ggaaatcttt tatttgctgc tcaggcctca 780
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cttagacgtt gtccatgttt ctggaatcac cgaataattc ctacttactg atataccttg 900
tatatttacc ccttctcttg aaatccctgt ggaattgtaa tctccagtat tggagggtggg 960
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tgccttccac catgatttta accttctga ggcttcccta gaggggtgatc agatgccagc 1200
accatgtttt catttaagcc ttcagaaata tgagccaatt aaactctttt ctttatacat 1260
taaaaaaaaa a 1271

```

<210> 1258

<211> 849

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (806)

<223> n equals a,t,g, or c

<400> 1258

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gggtccgcgcc ctgtcgggct gagcgagttg gccacagag ccggcgcgct cccgcctgca 60
gggggagagc agacgggagc ggggacggcc aggcggcgcg ggtgctgttt ctgtttcact 120
ttccttact ctgaggccgg cgcgctggcg ggcgaggagc ggcgggggtg gcgctgkaca 180
tgggaaagcg gaaccaccaa aaggagtgat gatcaacgat ctcatgataa atctggatgc 240
tagttctcat gcctcaggac atcctactgg gaacgacaca ccagctcctg ggatcagact 300
ttcatctact taggacctt ctttgeccag actactaaag ccagtcttca ctagccacga 360
atggctaccc aaaggaaaca cttggtgaaa gatttttaac cttacattac ctgctatata 420
tgtaaagggt atctgatcaa gccacaaca gtgacggaat gcctccatac attctgtaag 480
acttgatttg ttcagcactt tgaagatagc aatgattgcc caagggtgtg caaccaagtt 540
catgagacaa atccattaga aatggtgagg ttggacaata cattagagga aattatattt 600
aagctgggtc ctggactacg rgaacaagaa cttgagcgtg aatctgaatt ttggaagraa 660
aataagcctc aagraaatgg acaagatgat acttcaaaag ctgacaaaacc gaaagtagat 720
gaagaagggt atgaaaatga agatgataaa gattatccac aggaagtgac ccacaaattg 780
gctatctgtc taggttgttt tacggnatta atggggccat tcggggggaca tgttggtaaa 840
gggttttaa 849

```

<210> 1259

<211> 622

<212> DNA

<213> Homo sapiens

<400> 1259

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ggaatttggc ccatccaaag actggccaag tgccaaaaaa aggctgatt aggcctgaa 60
attcagtga attctgctg aagaaacctc ttattgaatt tgaaaaccat aaaccatttc 120

```


793

```

agggtgagctt atggggtttgt tttggggtttt tttttttttt ttttaagtctc tggcccaatg 180
tacgtgggat tagattctgc aagcaggcag cagtaagtat aagctaattt ctgtctataa 240
aaagaatgat taaaaaaaaaat cattttgttg atgtgtggaa tagagattat cacacacatc 300
attaagtggg aatgtgatga atgatcacia aacgaacagt cttataccca gcacacagat 360
cagaacaaaag taactatcaa gcaccttcaa tgccccctc akgcctcttc ggattawtaw 420
tgcawccttc ctatagagag gtaagcacct cttgattatc agcaccatgg gagatgtttg 480
tctgattttg aacttctgta aatgaaatca tatagtatat actctttgga atctgttgtc 540
ttttgtagag ggaacttttt cattataaat cttatagtag tgttgttcct tcttcccatc 600
aacagtgttc ttttacttaa aa 622

```

<210> 1260

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<400> 1260

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tctgggtccc caggggtcca ctcccgagc agccccggtc cgtcggcgtc agtggagccc 60
cagggcctggn tccgagatga gcgagacgct gctctgggtc gcggtcgccc gagcgctccc 120
aaaaccaggg aacaggcccc aggagagaag cccctagaag tttcctggag cagggagtct 180
cctgtatcct gttagctctg caaaggaatc tggactttat tctgagggcc ttggagaacc 240
cctgcaaagt tttttaaaag gtggactaag agattggcat ttcacaacat gactctccga 300
attgaaacac taagaagatt ggcgaaatth aacatttaca gattagtaat ttaaccagg 360
tgactcgcca tgaggacat ggctaccctt cacttttgga gggagtthta agtgatacag 420
atctttttgc caagcaatth tttttttttt tttgagacgg agcgtnttn t 471

```

<210> 1261

<211> 647

<212> DNA

<213> Homo sapiens

<220>

794

<221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (636)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (644)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (647)
 <223> n equals a,t,g, or c

<400> 1261
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 tgaaatgtgc atttgtcatc cccactccat caatccctga ccatgtaagg cttttttatt 120
 ttaaaaaaac agagttatcc caatacatta tcctgtgatt taccttacct acaaaagtgg 180
 ctctgttttg tttgatgatg attggtttta tttttgaaat atttattaag ggaaaactaa 240
 gttactgaat gaagggaacct ctttcttaca aaacaaaaaa aagggcagaa atcaccccaa 300
 ggaacgattt ctacaggttga gatgatcacc gtgaatccgg cttcctctga gcattcgtatg 360
 gccttagcac ctcatcaagc cagcacatcc tgcctgctgt tgcagcctgg ctgggtttat 420
 tcttcagtta ccctaattccc atgatgcctg gaaccttgat taccgtttta catcagctct 480
 tgtacttttc agtatatttt cataatgagt tatattgtca tttagacttt gaacagctct 540
 gggaaataga agactagggt tgtttcttaa atttagctca tgttataata aaaagttgaa 600
 atgaaaaaaa aaaaaaaggg gggccgcctt aaaggnccaa gttncgn 647

<210> 1262
 <211> 836
 <212> DNA
 <213> Homo sapiens

<400> 1262
 ctacaggaacc tccaatcatg gcagaaggca aagggggaggt gagctgtctc acatggccag 60
 agcaggaggt agagagggga aggtgccaca cacttacaaa caaccagatc tcaggacaac 120
 tcaactcagta tcaggagaac agcaccacaa aattgtgggt aatcattcat gagaagcctc 180
 ccacgaccca atcacctccc accaggcctt acctccaaca tctgggatta caattcaaca 240
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 ctacagataa cccattaatc tgtgaaggat taatctgttc atgaaggcag ggccctcatg 360
 atggaatcac atcttaaagc ccctacgtct gagtactgtt acattgggga tttagtttta 420
 atatgatttt cagagcagaa aaacattcaa accatagcaa tatgtattga atatctagat 480
 cattttccaaa taagatatta atatgatact gaaacattta ttgctgaaca taaatttaga 540
 acttactttg cctacctatt acagaagaac aaaagatatatt tgggcctatt aaacctttcc 600
 tctgccattt cctgtcctgt gtcataggac taggaatcgt gtttctagaa agtatgaaat 660
 cgtgtgcttg cmaacttgga agaaaacagt tcatgactgc ataccttcta gttctctagt 720
 gttcactgga aattaaagac actaaaagtt aacaattctt attaattaat catattaatg 780

795

taattggaat ttctagaaat attaggggaa gcaactttat acgcaaagca taacag 836

<210> 1263

<211> 312

<212> DNA

<213> Homo sapiens

<400> 1263

aattcggcag aggcacaacat taagaaaaaa ggaatatatt agaataaaat agaaaaagtt 60
 aaagggcatc acacaaaatt agtctaggta ttattccgaa gcttgcatth tatatgcac 120
 tgggcatgta ctgagctgtg aggtgagatg catctcttac tgtgggctcc aatcaaagtt 180
 ttaaaaacay cattttaagt tatgttcagt ggttactgaa tcttttacat aatttagttc 240
 tctcttgaat cttcttgtcg tcatagraaa tgtcctatat cmatttttac agctwtaacc 300
 atctgatctt ca 312

<210> 1264

<211> 190

<212> DNA

<213> Homo sapiens

<400> 1264

ggagctgact ctgcctgtcc agggcctgca aagtggctga gctcccttcg ggcccatggt 60
 gtgcgcactg gcattggaca agcccgggca aaactctttg agaagcagat tgttcagcat 120
 ggcgccagc tatgccctgc ccagggccca ggtgtcactc acattgtggt ggatgaagca 180
 tggactatga 190

<210> 1265

<211> 571

<212> DNA

<213> Homo sapiens

<400> 1265

accagtctcg cgacactttc cttggccatg ggagacacac gagaagagac tctcgcaaga 60
 aagtaaatga gtcaggctgg aaacagcgaa gtatatctcg cgatacacgt gtttaaaatg 120
 gcggcttcaa ggcgtttcac ggggtgtccc gacaggcgtg gaggtggggc gcaggcgagg 180
 atgaagcttg agttggccag gagtcggaaa acgattgcag gcgggaccgc gtcctcgagg 240
 gctgaggaaa cttagcgtgg cagaccctaa actgggataa ctttagggat atggccttct 300
 tttcccagtt gcctcaaaact tagagcagcg tcgtctttag ccgaagattc attttcccag 360
 cattttcctt ctccaggcgg agtagttgga gacagagggc aagccagaaa ctgaccttcc 420
 catctcctca ttcccttcca tcaagaactt ttcacgttc tttcccacc ctggtttgta 480
 aatggtatth ggcttcataa aaacgtttgt ccacaggtgc cctgctccat cagttcgctc 540
 cagcaatata ggaagttacc aaaaaaaaaa a 571

<210> 1266

<211> 1474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1345)

796

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1440)

<223> n equals a,t,g, or c

<400> 1266

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gagtcgcccc acaagaagaa gaaaatcgcg gcccgaggga aatgggaggt gttcccgga 120
agaaacaagt tcttctgtaa cgggaggatc atgatggccc ggcagacggg cgtcttctac 180
ctgacgctcg tctcactcct ggctactagc ggactcttct tcgccttcga ctgtccgtac 240
ctggcggtga aaatcacccc tgccatccct gcagtcgctg gcacctgtgt cttctttgtg 300
atggggaccc tgctccgcac cagcttcagc gaccccgag tctcccacg agccacrcct 360
gatgaagccg ccgatctgga aaggcaaata gatatcgcaa acggcaccag ttcagggggg 420
taccgccccg ctcccagaac caaagaagtc atcatcaatg gccagaccgt gaaacttaaa 480
tactgtttca cctgcaagat tttccggccc cctcgcgctt cccattgcag cctttgtgat 540
aactgcgtag aacggtttga tcaccactgt ccctgggtag gcaactgtgt ggggaaaaga 600
aactacagat ttttttatat gtttatttta tctctgtctt ttctgacagt ctttatattt 660
gcattcggtt tcacccacgt cattcttcgt tcacagcaaa caggattcct aaatgccctt 720
aaggacagtc ctgcaagcgt cctggaggct gtggtgtgct tcttctctgt ctggtccatc 780
gttggcctct caggattcca cacctacttg atcagctcca accagacaac aaatgaggac 840
attaaaggat cctggtcaaa taaaagaggt aaagaaaatt acaatcccta cagctacgga 900
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gaagagggtg catccagccc gacacgccgc agccagcagc accctccaat ggcacacca 1020
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atgccccgga aagatgagca catgggccac cagttcctga cgcccgatga ggcgccctcg 1320
ccccaggct actggcgggc gcagnccctt ggcgcacaag ccgaccatgc acgtgctggg 1380
ctggccagnc aggatcctg atgaggactt ttcgcggctg tgaactaant cctgtgacan 1440
atggccaggc cggggaaacc aaagggtctt atgg 1474

```

<210> 1267

<211> 1405

<212> DNA

<213> Homo sapiens

<400> 1267

```

gtgtatttta caattttttt aaaggaaaat ttaaaatatg aatggtttgt tttgtcttaa 60

```

797

```

caggggtatcc cttctccctc ccttgtcagc cttccttctt tctttgaaag gagaagtcac 120
acgttaagta gatctacaac tcatttgata tgaagcggtta ccaaaatctt aaattataga 180
aatgtataga cacctcatat tcaaataaga aactgactta aatgggtactt gtaattagca 240
cttgggtgaaa gctggaagga agataaataa cactaaacta tgctatttga ttttcttct 300
tgaaagagta aggtttacct gttacatttt caagttaatt catgtaaaaa atgatagtga 360
ttttgatgta atttatctct tgtttgaatc tgtcattcaa aggccataa ttaaagttgc 420
tatcagctga tattagtagc tttgcaaccc tgatagagta aataaatttt atgggygggt 480
gccaaatact gctgtgaatc tatttgtata gtatccatga atgaatttat ggaaatagat 540
atthgtgcag ctcaatttat gcagagatta aatgacatca taatactgga tgaaaacttg 600
catagaattc tgattaaata gtgggtctgt ttcacatgtg cagtttgaag tatttaata 660
accactcctt tcacagttta ttttcttctc aagcggtttc aagatctagc atgtggattt 720
taaaagattt gccctcatta acaagaataa catthaaagg agattgtttc aaaatatttt 780
tgcaaatga gataaggaca gaaagattga gaaacattgt atattttgca aaaacaagat 840
gtttgtagct gtttcagaga gactacggta tatttatggg aattttatcc actagcaa 900
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aactgactat agattgtttt ctatgccatg tatgtgccac ttctgagagt agtaaatagac 1320
tctttgttac attttaaaag caattgtatt agtaagaact ttgtaaataa atacctaaaa 1380
cccaagtgtg aaaaaaaaaa aaaaa 1405

```

<210> 1268

<211> 1453

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1452)

<223> n equals a,t,g, or c

<400> 1268

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aaaaaagaaa gaaagaaaag gtacatgtat atatttgtcc tgcattatgt tttttacttg 60
atataaatgt atttttactg tgatagtcca agtgccctgg ggggcaggtg tgctctatgt 120
ggttcttctt ccattggaga gctggcgtag agatctgcag tggtcacaag gatgttggtt 180
tggagatgtc tgctgctagg acctgggggtg tgtgactcag tccatatgag agggacatct 240
gggtggagga gtaaatcct gtgctctgaa atgccacttg gtagctctgg acaatgaagg 300
acaattgact caagggtgcc tggcttctgc tgctgctggg aaaaaattca gtttatagca 360
ttctgcacc tcccaaagta gataacctgg aggtcattca gtttaacaact gtccctgagg 420
actcagtttt gggggagggg ttatctggga gaagcttttag cctgttctga gccattagga 480
gacattagtg aattggagca ctggagaatc ctacaaatgg cctatgtctc agaagagctg 540
ggacctcctt ccagctgctg cagatgctga caggccctgg gaggctgctg tgctctggag 600
aagctggagc agctcatttc ttggcctagc ctggctgcct cagaaagagc agtcaggact 660
tgagggaagc atcaaattct ataccataa actgcagttg gaagtcagct ttttgaaatg 720
tccagccttt gcccaattgt ttcagatcat ctcatctctc aggccttggc aggtatcctg 780
ccctccatct tattccagtg tgttcacctc atcaaggcag cagagtggat gaaggagtaa 840
gtctgccctt tgccatactg aacagctgtg gaccccgatt ggtgagggct ctgcataatg 900
ctgtatgaag gagatacagg tgtgtgtgca catgccggtg tgaagaagac acaggcatgt 960

```

798

```
gcttctcagt tttgctaaca gtgggagctc aacggggcag agggaggaag gtccatgatg 1020
ctcagccaca tactgtagag agaggcaatt taatgttaaa tgacgcacca tcctccctcc 1080
cacccttctc ccagtcaact ttttttcttt ttctagaact actaattatc tctcaaggct 1140
gaaaaattaa ttgccttagg tggagaactt aattcctagt atccaccaaa cttaactccg 1200
tatctccata tgggtgtctcc atatctactg tgtgagctac ttaactgacg ccctcttcc 1260
ccaactgaag gatcgcccaa cgttttttga ttatagaatt attatttcct gctttctttc 1320
tttgggactt ttgaatttct ttggtttctg ttttaagaag taaccaaca tttcctacaa 1380
cactaaataa aatgggtactt acctttcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1440
aaaaaaaaaa ana 1453
```

<210> 1269

<211> 1353

<212> DNA

<213> Homo sapiens

<400> 1269

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ggtttaagca ctgttgggtt ctctttaatt aatatttgca gaaggagaac atatgtgttt 120
cactgatatg tatgggtccag aaaaattact taattctcaa aaatatgttg cattctcata 180
ttgtgttagg gaaaattcca taagtagtct attttttttt tttcttttgc tgactgttaa 240
catccaaca cctgaatgaa aactgactca tttctgtatt ggtgtttaaa aatattgatt 300
tgcagatgtt cacagaacac ttgcattttt tgattcacat tgctaaatca aatgtaaagg 360
caaatagtta tatttaataa atgagaagta tttttttatt actgaaattt attctcaaag 420
caaatgtatt ttgtagatgk ttcatttggg agattttgct ttgccttaaa acatacmaaa 480
taaacctgtc ttgtgggtctg cccacctcaa aacctctgtt aacttgacat gtagaaggag 540
ttcagaattc ttgataatg tgtgggtttc acttttgttt ggattaaaca aaaataaaat 600
tagagttcat agcactttgt aaactaatgt gaagtttctt gttgaatcat aaaagctacc 660
tgtatgtact ttataattta atgttctgtt agtaaaaatt gtcagcattt tatctttttc 720
tcttctcatt acatttttagt ctccaatctt tcccactctc agcagtcaca gttttgcaga 780
gcaaaacatt tttagaaact gaatatgtgt gagttctata taaaatgaat gtgttagtaa 840
catccatctg ctgatcaagg aggcatggga tctgggtacta gaagggtgaaa ttgattgtag 900
ctatcaaagc attttatcaa tgtaagtcaa gaaaaaagaa gaaaactgtg aacctctgat 960
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ttgtctatga tttttaagct aatgctaata taaaatctaa aatttcaaca tgatgacaac 1080
aattcctgta gcctgttttt accattagga tgtttttgaa aacagatgtc atcttagaaa 1140
ttatatTTTT aagtgcAAAT aaatcatcct gacttgaaag tcaacacatt ttatttttca 1200
ttcgttagta tcacagaata tgctgcattt agatacagg ttaatttgcc agattttctc 1260
aaaattctgt atttttatat tgctacaact ggtttactta acatgcaatt gaattgttat 1320
ttaaataaat tacatttgat ggaaaaaaaa aaa 1353
```

<210> 1270

<211> 1569

<212> DNA

<213> Homo sapiens

<400> 1270

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acctattcaa aatttttatta aaaaccagca aattaatttt aatctctagc cataaaaaaca 60
taagtaatag taagctccta agcttggaca aaggctggat tctcttcact ataactgagt 120
ggtaatttaa agacaacaat ttaatgtcac taattttcaa aattaaatag ttttaagctca 180
atttaatttt gctagatatt taacaaaaca tacgggtcaa cctcataacc tatatgtgtg 240
tatgtctaca tctgtgtata tatcatagga tttgagaatc ttaacacatg tataaataag 300
```

799

```

tatatataaa ctccaatttt aaatcttaaa attgctgaat ttaccctcat attctttaaa 360
aaacttaaag cattatgaat gtwgagaaat tcaccagagc tcaactgccta tttgatggct 420
gtaacaagtc ttcaagtata tactttttata ataagttgaa aatttcatat aattttattt 480
attaagaatt ccaatctaag tataaaggta caaggtagtg agaaggaaat actacagttc 540
ggagaactgc ttattttccaa gtatatattaa cttataaaagt taataaatag ttaaatgaaa 600
caaagtttat aggtgacctt tagtaaatgg ggaaattaac aggactttct tcttcactct 660
caaactcttc agaagcagca acagggctag ttaattcaac tccaattgt tctgaaagtt 720
tttttacctt ctcttctaag agaataattct tcttcacttc ttccttgtaa ttatacttaa 780
gatcttcaat ttcttcaaaa aatgaaggat caaaattttc cagttctttt ttcagcttct 840
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ctaactaag aacttgaagc tcccgtttaa ggccttgctc tgtctcagca ccttcaggaa 1080
catgtttaag aatcttaatc tgttgttcaa ggtcttcatt gtatttgta actttttggt 1140
ctctctctgt tgcttctttt acaagctggt taaggctcagt aatgctttga ttttttttgg 1200
caatatcagt ttccaattct tttwacttgg tttcatacat tcttgtaacc acaatggatt 1260
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ttgctatccg taatttctct gcagcatcag tttctttttt aagttcttta cgaagccttt 1440
cattttcagc aataattttt tctgtgcctt tggctcttga ttcatagtgc atgctcaact 1500
gatgccaaag atgagcttta agtttttcta attcagcctt caatttttca ttttctgtct 1560
caatattag

```

<210> 1271

<211> 573

<212> DNA

<213> Homo sapiens

<400> 1271

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cagttgaata catcatccac aaaccaccaa ttgccttctg aacatcagac cataactaagt 60
tctagggact ccagaaattc ttttaagatca aatttttctt caagagaatc agaactcttc 120
cgaagcaata cgcagcctgg attttcttac agttcaagta gagatgaagc cccaatcata 180
agcaattcag aaagggttgt ttcactctca agaccatttc aagaatcttc tgacaatgaa 240
ggtaggcgga caacgaggag attgctgtca cgcatagctt ctagcatgtc atctactttt 300
ttttcacgaa gatctagtca ggattccttg aatacaagat cattgaattc tgaaaattct 360
tacgtttctc caagaatctt gacagcttca cagtcccgtg gtaatgtacc atcagcttct 420
gaagttcccg ataatagggc atctgaagct tctcagggat ttagatttct taggcgaaga 480
tggggtttgt catctcttag ccacaatcat agctctgagt cagattcaga aaattttaac 540
caagaatctg aaggtagaaa tacaggacca tgg

```

573

<210> 1272

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 1272

800

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gcaacaaatg attctgaggc ttgatggctg tctanactta ctaacagaga tgagcaaata 60
caagcacaag agcagccctt tattgcctct tcttatcttt cataatgttt gcttcagtc 120
tgcaataaaa cccaagatcc tggctaataa aaaaagtcac tactgtgctt gctgcctgtc 180
tggaagtga gaatcaaaat gctcagagga ttggagcagc tkccctttgg gctctgattt 240
acaattatca gaaggcaaaa acagctttga aaagcccatc agtaaaaaga agagtggatg 300
aagcatactc cttagcaaaag aaaactttcc caaactcaga agcaaaccct ctaaattgcct 360
attatttgaa atgtcttgaa aacctcgtgc agctccttaa ttcttccctg agtgcccatg 420
ggatgcctac acctgaagc tgacagtcac caacagggga gctaaagttg aagcccagct 480
gtgtgtagca gctgttacct gaagacgtgc tacctctcta caaagtgttg atccccctct 540
ttcccatgag agagagaact ggtgatactc caacaccgtc cagttgtggc agctctccag 600
aagtaatagc agctgacaac tttctgtgcc ttttcccttc tgttgaaaag gcatagaaaag 660
ttctgggaac ataaacattt ttaccctttt ctatgccatt tattttgtaa aaatcctatt 720
taacagttat ttaataaaac aatattttta gaaamwaaaa aaaaaaaaat tactgcggtc 780
cg 782

```

<210> 1273

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1273

```

gctgaaccac ctccaaaacg catcractcc cggatattca aagctgccct ttcaaatacca 60
ctttcagacc gcgctgacct gggccagcca ctggsngtca tgggtgctgg tgggggcat 120
tagctgtgta gaccacagc tgcggtggcc tgggcccgcg gcgcctctc mccaacgcgg 180
ggagcctgcc cagttcttct ggagcctgaa atgcgtgcc ctcttggttg cccgctctcc 240
acagtgggga gggctcacga ggactaggtg acacaagcga gcccctcctg gcat 294

```

<210> 1274

<211> 687

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 1274

```

gctcgacagg taaaatccct acgtgatect tctgccaaaa tgtcgaaatc agaccctgac 60
aaactggcca ccgtccgaat aacagacagc ccagaggaga tagtgcagaa attccgcaag 120
gctgtracag acttcacctc ggaggtcacc tatgaccggc ctggccgcgc tggcgtgtcc 180
aacatagtgg cgggtgcacg cgcggtgacg gggctctccg tggaggaagt ggtgcgccgc 240
agngcgggca tngaactctg ctgcgtacaa gctggccgtg gcagatgctg tgattgagaa 300
gtttgcccc aattaagcgtg aaattgaaaa actgaagctg gacaaggacc atttagagaa 360
ggttttataa attggatcag caaaagccaa agaattagca tacactgtgt gccaggaggt 420
gaagaaattg gtgggttttc tataggaagt ttcaacgaat cacagcaagg cttttgtgcc 480

```


801

```

ttgcactcca tgcattctga taacggcagc tttcctaaaa agaaaaagtt atagtttttg 540
gacattttaat ttggtatagc tgattattgg ctttatttga tgaatattgc tttgtagctt 600
tgaaatacga cagtgttcca aatcccatca acaaaatgct gtgaacaaca acaacaaaaa 660
ataaatcaag aaggcatarm aaaaaaa 687

```

<210> 1275

<211> 818

<212> DNA

<213> Homo sapiens

<400> 1275

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gaattcggca cgagaaaaag ccataatata agactctaaa gatctggaat gaaacctaata 60
aagagactgg taggtcaaat gagagcaaag catttgaatt tgactggatt gttttctcac 120
tggaataagt gattctatga gttcatcatt aacacatttt ttgactggaa aactgctata 180
ggatcccagg gaggactaaa tttgaacaga ggaagtggac agtgttgcag tctctgttct 240
agctcttggg tctagaatag gagagttaag agcaccaatt tgggatgaag aaagcagaaa 300
gcaattatcg atatcaatca agagagcaga acagcctctc tccctccatc ctcctctctgc 360
cctcttctcc ctctctctct ctctgctttc ctttactct gtgtatgtta gctttggccc 420
cattccataa gccgagataa aaatgctagg catgataaat ttgtgactgt tactaacatt 480
taggattttt tttttgagat ggagtttcac tcatgttgca gtgagctgag attgtaccat 540
tgcactccag cctgggcaac agagcgagag tctgtctcaa acaaacaaac aaaaaaaca 600
atgccacgtc aacatcagga cgttaacctt tagaccctat atggtctaaa aaggggagggc 660
atgaataatc cacccttgt ttagcatatc atcaagaaat aaccataaaa atgggcaacc 720
agcagccctg ccctgtctat ggagtagcca ttcttttatt ctttagttt ctttaataaat 780
ttgctttcac tgtaaaaaa aaaaaaaaa aaactcga 818

```

<210> 1276

<211> 850

<212> DNA

<213> Homo sapiens

<400> 1276

```

ccccttcaact tgggagtctg acttcattac ctcgtctgaa acaagggtgcc tccaagcttt 60
gggttgattt ccagaatctt gttgggttaa acataagtag aagtttgatc ataaagggtg 120
ttattaagcc ggataggtaa gcacgggtgac aatggcaata gaaatctaata ggaaaacgat 180
tgaatgacaa ctacacccaaa gtttcatgga tgaaactcac cccagaaact tagtgttcaa 240
atcagagtga tacacaattc aaaatgtgat tttaaacttc tggaaatatg tgtgtttgtg 300
aagatccaaa tccaattcag caacctccat caggcagaaa ctttctgcaa tcctcacatg 360
aggaactggk tcacagtgtg cacagcatgg agccattagt gacgttatcc aaaggatgag 420
acaagacaaa agttactgtc taataaaaagg aaaattagga acaggaatgc tctttaaaact 480
caggaagatc ttttggggtg tcaaactgga cagcacagaa tcattagaaa aattagcttg 540
gcgtgagaag agacattgag gtcttctctg taaaatttac ttagatactt gtgaatagga 600
ctgaaattta tattttgggc actctttacc tcagattcag agttcttagg attattttaa 660
attcatttgc tggatgtttt caagtataaa caataagaaa actgcaactt caacttaaaa 720
ggcactgctg tatttgcacc ctatattttg acctgtcgtt aggtactgtt gaatattttt 780
atctgtaagc atttatgaag tgcaaaaata acatgtttatt atataaaaaa aaaaaaaaaa 840
ggcggccgct 850

```

<210> 1277

<211> 500

<212> DNA

802

<213> Homo sapiens

<400> 1277

```

gagcaagacc ttgtctcaaa aaagcaaaaa agcaaaaaaa aaaaaaaaaa aaaaaaaaag 60
gaagtctttc ttcagatact tacgtgaaaa aaacctgcaa tatcttttaa gtgaaaaaaa 120
cagtgccaaag cagcacacat agtataagcc ccaaccaacc tttttttttt tttttttttt 180
gagacagagt ctggctgtgc ctcccacttt ctaagctttg saragagtga gttgactgag 240
cagccaggta gatgtgggtt cagatctctg cktctgtccy gctgtgcaa gtgctggggc 300
agacgcrggc agagagtggg cagyggcatg gtgcctgctg ctagccattt ctatgcaaaa 360
ccagatttct rgtcccatcc tggaggccaa ttctaggtac stgggtgggc ctgggaacct 420
gtgaamcaag taaactgact tagacacccc ccacccacc aggctgtcc tagcagcccc 480
acacaaaacg ctcatgtcct                                     500

```

<210> 1278

<211> 561

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (538)

<223> n equals a,t,g, or c

<400> 1278

```

gaagtactct aaatgagcat aaggaagaaa acacaactac agttttcata ggagctaaac 60
tgcagaacac agacaggatt ctagaaggac aaatcttatt tcatttagct tcttcttaaa 120
gccaagatac ctgcaaattc aaaccttagg ttctgcctc tgcggcaccc aggagagacc 180
tgactaggaa acttcagaga ggagaatgta aaaggaaatg tagatatatta taattgaagt 240
atctttcccc ttgggtattt ctctttctct tttttttttt aatgaaaatc agtcaactga 300
atatttttgt tccccgagga agactcctca gctgtcgatt atgctgagca cacgggagaa 360
gctctaacag aagatgatgc ccgctctggc taatgateac ctgttctgta tcagtggagag 420
acaaggctct gaagttggcc cccttcagct gtgaataggt attaggtacg gaatatagct 480
aaaagcattt gtgtgagcct gcaaancaaa tgggtgctgg anccaatttt gtacagggnat 540
atccaaataa atttaatttt c                                     561

```

<210> 1279

<211> 1667

<212> DNA

<213> Homo sapiens

<400> 1279

803

```

gggaactgcc aaaagtgtgc atttggctac agtggactcg actgtaagga caaatattcag 60
ctgatcctca ctattgtggg caccatcgct ggcatgtgca ttctcagcat gataattgca 120
ttgattgtca cagcaagatc aaataacaaa acgaagcata ttgaagaaga gaacttgatt 180
gacgaagact ttcaaaatct aaaactgcgg tcgacaggct tcaccaatct tggagcagaa 240
gggagcgtct ttccctaaggc caggataacg gcctccagag acagccagat gcaaaatccc 300
tattcaagmc acagcagcat gccccgcctt gactattaga atcataagaa tgtggaaccc 360
gccatggccc ccaaccaatg tacaagctat tatttagagt gtttagaaag actgatggag 420
aagtgcagac cagtaaagat ctggmctcgg gggttttctt ccactctgaca tctgccagcc 480
tctctgaatg gaagtgtgga atgtttgcaa cgaatccagc tcacttgcta aataagaatc 540
tatgacatta aatgtagtag atgctattag cgcttgtag agaggtggtt ttcttcaatc 600
agtacaaagt actgagacaa tggttagggg tgttttctta attcttttcc tggtagggca 660
acaagaacca ttccaatct agaggaaagc tccccagcat tgcttgctcc tgggcaaaaa 720
ttgctcttga gttaagtgc ctaattcccc tgggagacat acgcatcaac tgtggagggtc 780
cgaggggatg agaagggata cccaccacct ttcaagggtc acaagctcac tctctgacaa 840
gtcagaatag ggacactgct tctatccctc caatggagag attctggcaa cctttgaaca 900
gcccagagct tgcaacctag cctcacccaa gaagactgga aagagacata tctctcagct 960
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cagagagtaa aaaacatgac ctggtagaag gaagagaggc aaaggaaact gggtagggag 1140
gatcaattag agaggaggca cctgggatcc accttcttcc ttaggtcccc tcctccatca 1200
gcaaaggagc acttctctaa tcatgccctc ccgaagactg gctgggagaa gggttaaaaa 1260
caaaaaatcc aggagtaaga gccttaggtc agtttgaaat tggagacaaa ctgtctggca 1320
aagggtgcga gagggagctt gtgctcagga gtccagccgt ccagcctcgg ggtgtaggtt 1380
tctgaggtgt gccattgggg cctcagcctt ctctggtgac agaggctcag ctgtggccac 1440
caacacacaa ccacacacac acaaccacac acacaaatgg gggcaaccac atccagtaca 1500
agcttttaca aatgttatta gtgtcctttt ttattttctaa tgccttgtec tcttaaaagt 1560
tattttatatt gttattatta tttgttcttg actgttaatt gtgaatggta atgcaataaa 1620
gtgcctttgt tagatggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1667

```

<210> 1280

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<400> 1280

```

ttcacagcta ggagtccttg ggaatacacg aacctgtgca gtagacagtt gggggccagc 60

```

804

```
ttgttgaggaga ctgttcttat tttcttcttc ctttcagaat ttcagctgat cctcactatt 120
gtgggcacca tgcgtggcat tgtcattctc agcatgataa ttgcattgat tgtsacagca 180
agatcaaata acaaaacgaa gcatattgaa gaagagaact tgattgacga agactttcaa 240
aatctaaaac tgcggtcgac aggcttcacc aatcttggag cagaagggag cgtctttcct 300
aaggtcagga taacggcctc cagagacagc cagatgcaaa atccctattc aagccacact 360
caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaana aaaaaaaaaa aaaaaaaaaa aangggc 457
```

<210> 1281

<211> 723

<212> DNA

<213> Homo sapiens

<400> 1281

```
ttttttttcc awgtacwtga aaaatccatt ctcttggtgt cactacmagt ctgcttagtt 60
ttaagtgaat ttccttttat gtctacttgg tttttacttg tgtcaacatt tagtatgcta 120
cctcttctat wgaaggatga actcctaatt ccctctgttg tgacaacaat ggcatTTTTT 180
atagcttgtg taacttctct ttcaatattt gaaaagactt ctgaagaaga actgcagttg 240
aaatcctttt ccatttctgt gaggaaatat cttccatgtt ttacatttct tccagaatt 300
atacaatatt tgtttcttat ctgagtcac actatggtgc ttctgacgtt gatgactgtc 360
acactggatc ctctcagaa actaccggac ttgttttctg tattggtgtg ttttgtatct 420
tgcttgaact tcctgttctt cttggtatac tttaacatta ttattatgtg ggattccaaa 480
agtggaagaa atcagaagaa aatcagctag ctgtattcct aaacaaattg tttcctaaac 540
aaatgtgaat atgtgaacag tgctgaaagg ttttgtgaac tttttgctat gtataaatga 600
aattaccatt ttgagaacca tggaaccaca ggaaaggaaa tgggtgaaaag tcattgttgt 660
ctacacaaaa taaatgtata tggagaccaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaa 723
```

<210> 1282

<211> 331

<212> DNA

<213> Homo sapiens

<400> 1282

```
cggacgcgtg ggcgaccac gcgtccggct caggcacgtg gccaccttg aaccagggat 60
tttgatcggg ggactctcat tggcccgccc ccgttgggtt ccttgctccc tggcccccac 120
gggagtgagg atggcgccat ggtggagagc accaccagga ccacgtggag ttagggagag 180
actgtcccc taagaaaaac ataggacccc tgcaagccca accacctctc ccattagaat 240
ttttcagtc ggcacaatgt caaaagttca gcttaggktg garacaaatt tgcargacag 300
gtttcccara atcatccaca ttaccaccta c 331
```

<210> 1283

<211> 347

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

805

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<400> 1283

```
gttctagcaa gtgtggtttt agctgtatta gccagattgg gcggccggga gtggtggggg 60
tgccgggtgg aaggctctgg gcggggtctc aggaccctcc ttttcttggc ggggatcggg 120
cttgtggtgc cgctccccgt aatgtacgga ggaagaggga aagggtctctg gccccctcgg 180
cgtcatgtct tcggtgctgg cggttccca tccgctggtt ctatcctcaa acgccgggac 240
accgggaatc tcggaggaag ggacaaccga ggattccagc tggcttcctn catcggggtg 300
cttcacaatt tcttcatttg attttcangt cttgcggacg ctgttat 347
```

<210> 1284

<211> 918

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (866)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (916)

806

<223> n equals a,t,g, or c

<400> 1284

```

gacacnaacc ctcactaaag ggaacaaaag ctggagctcc accgcggtgc gnccgctcta 60
gaactagtgg atcccccggy ctgcaggaat tcggcacgag cctgtcacca tccccagccg 120
ttagccatgg cttcgggttct ggctcccggg cagccccggg cgctggactc ctccaagcac 180
angctggagg tgcacaccat ctccgacacc tccagcccgg aggccgcaga gaaagataaa 240
agccagcagg ggaagaatga ggacgtgggc gccgaggacc cgtctaagaa gaagcgga 300
aggcggcagg gactcacttt accagccagc agctccagga gctggaggcc actttccaga 360
ggaaccgcta cccggacatg tccacacgcy aagaaatcgc tgtgtggacc aaccttacgg 420
aagccccgagt ccgggttttg ttcaagaatc gtcggggccaa atggagaaaag agggagcgca 480
accagcaggc cgagctatgc aagaatggct tcggggccgca gttcaatggg ctcatgcagc 540
cctacgacga catgtaccca ggctattcct acaacaactg ggccgccaaag ggccttacat 600
ccgcctccct atccaccaag agcttccctt tcttcaactc tatgaacgtc aacccccctgt 660
catcacagag catgttttcc ccacccaact ctatctsgtc catgagcatg tsgtccagca 720
tggtgcccctc agcagtgcga ggcgtcccgg gctccagtct caacagcctg aataacttga 780
acaacctgag tagcccgycg ctgaattccg cgggtgccgac gnctgcctgt ccttacgcgc 840
cgccgacttc ctccgtatgt ttatanggac acgtgtantc gagcctggcc agcctgagac 900
tgaaagcaaa gcagcnct                                     918

```

<210> 1285

<211> 3211

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<400> 1285

```

gggattacag gcatgatgcy ccgcacttgg cctagtgttt tcttaactgt gaaattccca 60
ttcatttctt gaatgaggct acatcttatg gacagagcaa agttattgtc ctacagattc 120
ttaaactat aattatggct attgcatgaa atttaaatag attttattat gtctgcaa 180
ctctgggctt ttatttttct ggaaaatata ggagctttta tcaaaacata atagttcttt 240
ttgtaattcc atgttaataa aaacaaatac tagcaattgc ttgaatttta atgaatattt 300
aaaagttcaa gagccacgga aatcacttcc agagataaga gttcccttcc taaatagaac 360
acatttttaa aaaataagtt atgtttgcta ctaaaacatt tacactgkta gactattatg 420
tgcattgtgc caagactctt aagtaacttg gatatcaact gtgaagggcc tacctctaaa 480
aagtaacagg tcatacaaat acmaatgtaa ctgntaaaaa ttccactgga ttcttgcata 540
tttgcaagat tagattattc aaaagaaatt tcagtgtctaa aattaaccag caacataagt 600
tctatgggct ttgaaaattg ttctcatctt tttaaagttg atgcattttc aatcctgctt 660
acacaggctg ttcatgttga taagtataaa aaatgtctaa ggtgaacttg gcattatgtg 720
gagatgttgg accgttatag agcaatacaa attcctatgc tgtcattctg ttttctgcaa 780
atgcaaacgt gcttatatgg tcaacagtgc aaaaataggg tagttggctg catatttagg 840
gtattaccta agcatttgtt ctctaacgtt gctctactag aatgattttt ttcttgcatc 900
ttttcacatt aatgatgttc tttatataac tttcatgcga ttatttagtt ttttaaatta 960
ataaagtga ttttaagaaat attgaaataa acatctaagt aattgccatt ttaaaccctt 1020
gtttcttact gtgggagagg gggaaatata gcactcattt cttgttttta atttgcagaa 1080
gtaagtgaat atctatgtaa aatcaaacca aaagagttgg actgagtgtg tattgtcttg 1140
agattaagtg acaaatagta aagtgttact gagtaattaa gcccatgtat tttttttttg 1200

```

807

```

tgagttgaaa atctttgaaa tatgtgataa ccgaatgtca aaagttccta aactctaaca 1260
gtgcagggttg ttcactgtaa cgaggtaact catatttgct gggtacataa actacaagta 1320
ctgctctcac aatatgggac tttgaactgt gatgtagttc aacagttgcc ggcatcctct 1380
cagctgatac gctgcgaata ttttgggtta gacttgcagc cagatgcagt tttgcaaccc 1440
aagaaaaaag ttgaacctat gatcaaaaac tgctcccaag atgaacctgg aaaaaaatca 1500
gctaagctcc cttggcgatc tgcaggaaca ctagtaatga ctggaattac tccgtgatct 1560
ttgatgacta ttacacataa cagcactcta gcaccttttc ttactggcat ggacttcctc 1620
atggactgct acttcatgga tgatagcttc attgcttttg gtagggattt aaggtagtca 1680
aggggaaaaat acgcatttta ttacaggctc taacatcagg caactttcaa ctttaaaacc 1740
ctttgtgaaa aatgtgggtta tagcactata gctctgattt taggatgggt aaatgttata 1800
ttcattgttg gcytacctta tcaaactgtg ccattaatcc tttcacagac ataggtaagg 1860
aagagaacaa ccagtggtt caggggacaa ttatctatct ccaaataata ggcttttatt 1920
tcttgcagct aactttttca gtgattctag cagatgccat ctagtacatc cttgatcttg 1980
tttstttcgt gagagatctc gccatggcag catcttggtta agtaagtgt attgcacatg 2040
cacaaaagac ttaactagct ttacatttag cagtcagttg gttagattag gtttcatagt 2100
aaatgaatag gaatagaaa aataggaagt gtttttattt tccagtagta attccgtgga 2160
ttccatttga ccaggtttac tatcagttca gttcaggtag atttggttca acttttggtg 2220
gtttttggct ctaggatatt cttgacttta atatcctaga acttactgag tcttcccttc 2280
aataaataca cttctcacat acctctaate ctatgcttcc ttgaaacaat aatgctagct 2340
gagttgttta ctaaggatta ttataagggc ctgaagggtg gggagtggag attaattaaa 2400
acctttatgt tctccaatat aagggaaaag caggttggtta ctacttctga ttaggcagaa 2460
aacaccagga ttccttaagt gatccttgaa atggttattg ttttctgcct tgtcacattt 2520
gccactgtgc cttttaaacc gatgtggaaa cctcaggttt gtggacagca caggtggaat 2580
gacatcttgt gcttcctgag gctccctct accaggcaca ttagcttagt gcttcagatg 2640
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gctggagcgc ttgcaactc caggtgacta ttctcacctc catttcctcc acatgcatta 2760
gggtgaaactg aggtctaagc ctcctgcaag gtctacattt taaggactca cacatcaggc 2820
tctcagaaat gtacacaggt attagttctg tttgttctaa aggaaatgtg ggtatctctc 2880
aggccaggac ttagtgacta gttttcgcta gacagcaggt taatacctag atctcattta 2940
aaaaaaaaaa aaaaaaaaca ggattaaagg gaactgatca ggtttggtga gttttttagc 3000
ctaattccaa agcatggaag agtgctctag gtaggaaaga aagctttttc ttacgatttg 3060
tagctacctc ctgtgcctga cttggtgcct gtgtgaggat taagccctta gtctgctctt 3120
gcaattattc aaatgacaaa ttaaatttgc ttttgtaata acaataaaaag ttgtcatctt 3180
cccttttgaa aaaaaaaaaa aaaaaaaaaa g 3211

```

<210> 1286

<211> 790

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<400> 1286

```

tgaggattag tgcagtnntc ccaagggaag atatgatcat agctagtggg cttaccttgg 60
cagtacttag actgtgtatc ctttgaagtg tccttatcta gggatggttt ccatgaaaac 120
catacagggt ttctaaatga cacagtctgg gtaactgcct agcttatgta atcatgtgag 180
gggttaataa tctctagggg ttagttacac tgatgacttt tcaagggttc cmgggcctga 240
ccaaaatttt ggcttctctt aatacaaaag ggcacctgga attttagctc tgtgtacatt 300

```

808

```

gatattgggc cccaaatggg tttctgtggg atgcaacccc agaaagggta ctctgatagt 360
actggagaag gtttactgct tgcctgtca tcgtagttca tgtttttttc cccaaggcca 420
aagattgggc tgggattggg gtggtagtgt atttgaatga tgctggagat aaccaaagcc 480
aacagtcttt gccagagctg ggctggtggt atttaactgt ctttgagtta aatgtaaagt 540
ttttaataaa taccagaat ccattaactg ctggaggggt aaagtgaagc tctgttgtaa 600
aataaagctg attccatta tgcgtggtcc tgtatacaca ggctgtgggt gaccattatg 660
gaacccaaaa atacctatatt gttattttgt gctatagaat aggaacttca ggggtggata 720
cctatgctgt caggaatgct tgttataaga attaattaaa acactttgct taattattaa 780
aaaaaaaaaa                                     790

```

<210> 1287

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 1287

```

cggcacgagc ggcacgagcg gcacgagggg atttctaggt tttcccttg atcccagcag 60
ggttgtactg cctaagagag cttggaaagg gatagagaag tctgacccaa atttgcgagg 120
sgactgagtg tatgctgccc cttttctggg ccttggcttc ttctcaatc atctaggcac 180
agtckatga ctgcctgttt ttgaggatgt gggaaagggtc tgcaaataca gtgctttccc 240
attgacacac gctggtgagg atgcaagctc cctggcacca gcagtgaggg ctcagattgc 300
aagagtaaaa acttcatcac tgggaagaga agtctgcagg ggactggaag tgatctgaan 360
attctgaaat aactcttcct ctctctgcag a                                     391

```

<210> 1288

<211> 392

<212> DNA

<213> Homo sapiens

<400> 1288

```

gggaaaggag tgtttcccag acagcccagc ayctgcaggg gatggagggc acataagttt 60
gaatataaag tttaacaaat caggggcagg gccagaggaa ccaagtccaa gctcttgggt 120
tcaactataa agtaccatgg aagtttgaaa actgaaagag atcaaaaagc tgttagaaga 180
aaacgcaggc atcaatcttt atgaccttcg attaggcagt ggtttcttag atatgacacc 240
aaaagcaaag caacaaaaga aagaaaactt aaagtggatg tcatcagaat gaaaaactct 300
tgtgcttcaa aggataccat cacattttat aattcatagr tctgataaag grcttgtrtt 360
aaggaawtmc aaggacctcc acctccatta cc                                     392

```

<210> 1289

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1289

```

agtgtgaagg tagccatctr aggaccagtg ctacaccaa gaatactgat aagtgtttct 60
ggtgtgggag aaatraggrt tatttatata gggcaaaaca gaggtgttga acaggattac 120

```


809

agcattttt

129

<210> 1290

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 1290

```

gtccgggagc agtggttgga gttcncagag tnatgacgtg gagtggctgg gcctgggcag 60
atgtgcacat cgtctgtact ctggatccct ggcccagaag gactcagatc cttacttcta 120
ggaattttca tttaatgaac attatgagaa ttggagggaa ggagaattcc ctttacagaa 180
tcaacccaag ttttctgcag ggatagggag cccttgtagt aagttatccc catagaaatg 240
aaaaccacgt ctccaccatg gctgttctta ctctctcaga gaagctctga taaatgaatc 300
ttcctggata tcctgatcat tttcattttc cacgtgctcc attcctgctg ggaaccccag 360
ttggcggaca caggcagatg gccaggggac cttccacaaa gggccacagc ctgtggccng 420
ccantcantg tgcccttcc tgtg 444

```

<210> 1291

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

810

<400> 1291

```

gcacagtttc tctaatacatg gtcaacaaag atctgacagt gcatcggtccc taaacgaccc 60
atacttgccct cactgacacc atgtggccca ctcccatct ataatactatg tctgggtgtg 120
aagcccttcc catatgatcc cccgaatgga acttcacaag ttcgaattca ctgggtcaca 180
gtgtgatagc gtgaagatgg gaggacgtta agggaaggct atgggtgagt tgggaaatgt 240
gttaggcagg gtcagagatt accacatcct aaaaacaaca cttaaggcgg gagatgacaa 300
aacaatcaat gaataacatg actttttcca gtgaaagtgc cataatctaat ccttttccat 360
ttttgttctc tgagcttctt tcttagggaa gatccttctt gagaagcccc tgctgagtat 420
taggaaaatg catttcagga cctctcatca acacaccctc tttctttacc acaaccacat 480
atatgggggc ataactcaac atgtgtaaaa gacaatcttc tgcttttcac tgaacctcca 540
ggaattcagg acaataaayn tctacatgsa gaccaacagg tgagtttttc tgcccccttct 600
ttcataacac cgttcttccc tagtgaagtc cacacacatc cttacatggc agctgtgggt 660
atatcaactg gtc 673

```

<210> 1292

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<400> 1292

```

gccagaataa tattctctta tttgcatgta tctaccacat tttatttatt cattcagcga 60
cgggcagcag cctgtagata gttttgtttt catgtattga atgggtccttt cccccagtgg 120
agttagtaaa tgcataccgga agcagaattc tgttggttcc cattcatcac tgtgtgccag 180
gtgtctgaga agggggtctt ataggagccc acgcaraaac caagctcacc tcagtctggg 240
tgtggggcag tcaggggaagg cattctggaa aatgtagctg actcgaaata agcacctatt 300
graaatagtg tgcygagccc tggaacatta aaaatgtgtt cctatgtgga aatcanaaat 360
gtatgggtcc ca 372

```

<210> 1293

<211> 1204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 1293

```

aagcttcctt tgnnctagcc cggccgccac cgcgggtgaac agacagctcc caggttccca 60

```

811

```

attttattaa tgccacgcta ccacctcagg agcgcatcac tgctcaggag attgacagct 120
acttacgccg ggagctgac tacaagcgga atgagagaat aggggaagcgg gtgaaggccc 180
ttttggagga gtccctgac aaaggcttct tctttgcctt tggagctgct tcacagtagc 240
cttgaaaatc aggagccttg aactacagta gctgtgaaaa ctgtttgcct aatggttact 300
ggaggggaca gaatgggttc aaagtccctc caaagctcca tccttaaaga atcatcacta 360
tttgacatgt ccaatagttc cctgaaattt ccattcccaa gcttgtcttc atttgacctg 420
actcagagct tgctctgtgt gaatagccct attcttaggg tgtgtgttga aaacaatcag 480
tagcagctgt ttaacatcat agttgctgga aatagcaata ttaattgaag cttacaaggg 540
gctgccc aaaacttaaaa gcaaaatccc atagggggta tagaaaagct ctaaaatatt 600
cctagagagt cacatgcatg agaagagctg tgcacatgcc caggaaagac ctgagaaggt 660
cctaattctc cacctctggc tgatcttgag gctctgtgta agcagagtgt gaaagctaag 720
gcaaagtc aaattgcctg ttgaagcatc aaatacatgc ccccaaactc acacagcccc 780
tctgcaaagg ttgggaaact tgcaaggaat ttaaggaaat ctctgttcag tcattagcca 840
gccactaaac taactgagca gatccttcag tgatcacaca caacaaagaa tacagacttt 900
acagacttag tcctagaaaa tcactacaca aacagcaaca acaatgcacc tgggactaag 960
ggagaggaga tgagttccag agttggtata ttatttaaat gtctagtttt caataaaaaac 1020
aattataaga cacagagcaa aactagaaag tatggcccat acccagggaa aaacaagcaa 1080
ccaatagaag ctgtccttga ggaagttaat atcttgagct tactagaaaa tgactttaac 1140
mctagtatta taaatatgtt cmaaaaaacta aaagaggcca ggtgcggagg ctcacgccta 1200
taat 1204

```

<210> 1294

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<400> 1294

```

aagtgtgcaa aatagcatta tttctaaaaa gacaatgtat atatcttatt taaaaactat 60
tgtagaaaaa tgctaataat gatcttgagct ttcagtaagt tgtaatcttt ttgggtggtag 120
agggtctcgc cttgatgttg atggctgctg actgaatcag ggtgatgggt gctgaagggt 180
gaggtggctg tggtatttaa aataaggcaa caatgaagtt tgccacattg actcttcctt 240
tcaccaaaga ttctctgtga gcatgtgaca ctgtttgata gcatattccc caccacagat 300
cttctttcag aactgggggt gggacctggg gcacttgagc taatgggtct aaaccctttg 360
ttgtcatttc aacaatgtgg cacagcatct ttcaccagra gttggattcc atctcaagga 420
aaccactttc ttggtcttca gccgtaagan ggcaattccc ccgtttcaag tttt 474

```

<210> 1295

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

812

<220>

<221> misc feature

<222> (407)

<223> n equals a,t,g, or c

<400> 1295

```
gcgaaggcag aatcattttt tctacctgtc tgaatcagca ctttgtaagt ttacataaaa 60
ttaaggattg tgatttctaa gataggcatg ctttgcaa atttctctat aaaagtggaa 120
gcctctttcc catagtgtc actttaaggc tttctgtagg cctgccgata agattcactg 180
ctgttcagggt acataagatg taatgtaatt ggatgcacat gctgggcttt gtaaataaaa 240
tgagattgac acccagcaat tatctcattt atctgattta cattgtaaaa tcaggatcta 300
cactattgat tagagcataa ttagttaatt atgaacaggg aaatacaaag ttacatggag 360
cttgagctca gcargttgta ctgctnaaaa atttccaagg gcatgancag atggaaatca 420
gtttattaaa gaacaaagca gacatgtttc 450
```

<210> 1296

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (379)

<223> n equals a,t,g, or c

<400> 1296

```
aaagctggta cgctgcagg taccgggtccg gaattcccgg gtcgaccac gcgtccgcta 60
agattagaac agctcatagg agagtcata ttttgaatca cccagataaa ggtggatctc 120
cttacgtagc agccaaaata aatgaagcaa aagacttgct agaaacaacc accaaacatt 180
gatgcttaag gaccacactg aaggaaaaaa aaagagggga cttcraaaaa aaaaaaagcc 240
ctgcaaaaata ttctaaaaaca tgggtcttctt aattttctat atggattgac cacagtctta 300
tcttccacca ttaagctgta taacaataaa atgttaatag tcttgctttt tattatcttt 360
taaagatctc mtacaaaana aaaaaaaggg cgg 393
```

<210> 1297

<211> 627

<212> DNA

<213> Homo sapiens

<400> 1297

```
tgtcctagag atcctgagaa ttacttttaa taaaatcatt tttttgctgt tattaaaact 60
aacctgaatt gcctaaaacc aagaactctg cttgataaaa taagcatagt tttaggaaca 120
gccatgcaga tataaatttt atcaacactt tatacataat ttgggactta tatttaaatg 180
taatatttga tgcttataaa agggtaaagt gggaatgcaa ataaattatc aagcataata 240
actcatcacc taacttaaga ataacattat gagtgcttgt attttatcta tttgagctct 300
tctcctatct ttgccgaccc ccccgctctc tttttaatag atttgttcga atgtagaaag 360
acctaaaata catatgtatc cctaaagtga cttattttat agttttcttt ctttttgaac 420
ttcaaaaaaa ttgtatcata ctctatgtag tctaaggatt tggttttttt cactcaacat 480
gtctctagaa ttcacaagtt ttattgtttt atagctgtca ttttcattga tgtatatattc 540
attgttgggt tataacaacat attgttaagg aatacataca tatataataa attatacatt 600
ttttaaaaaa aaaaaaaaaa aaaaaaa 627
```

813

<210> 1298
<211> 381
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<400> 1298
gtgggcctta gggtagacga ggcgcgcag cgtttggtg catggcgccg ggggagggcg 60
ccctaaccga gaagctgctt aatacaaaga gctccagget cctggcggtt caccaggtct 120
aaacagcccg gctttatttg tgggggcgat tgaaaaaatt gaggggtcaag attgggggtgc 180
tgtgcaaata aatgcgttaa tactgttctt tttcttctt ctttgtagta gcctctagtt 240
cgtagtcaa aacgttgaaa aaaaatactg ctttgccctg ggaaataata accctgccaa 300
atactccact tgttggaac aaaagatttt atgggaactnc ttnaaaaaaa anctccacat 360
gcccattttt tttaccggt t 381

<210> 1299
<211> 509
<212> DNA
<213> Homo sapiens

<400> 1299
gacattgtaa ccgcagattc agcccaatct ggttcaactt tgtgtaataa aatggcgagt 60
tgtttttcag ttgtcgtgga cccccaggtt gcaagttaca taccctgggc atgtccagat 120
gaacgaagcg tgcaaatcca cgtggaacct aagtgtctag actgaggaac agggactgag 180
ttaagaagtg gacaccacgt ggcattgatcc ttgatccaat cagattgagc cctggcgtga 240
tccagtcaga tcaagcctcc tgaatccctt cattacaaga tccaatcata tcatgcctca 300
ctaccctctg tatataaaat ctgccccagc ctccaacttg gagagacaga tttgggccag 360
actcctgtgt ccttgcttgg ctgccttgca ataaattttt ctctctacaa aacccagtg 420
cttcagtgtt tggttttcca atgtgagcca gggaactgac ccaatttagt tcggcaacaa 480
cataagcaaa atgttttccc gagttctct 509

<210> 1300
<211> 452
<212> DNA
<213> Homo sapiens

814

<400> 1300

```

ggcagaggtg acaggtggtg ggggatgagc agggacgggc cagttttgta atctgggasa 60
gttttcaaga tgtattccct ctctgacatc tattaactag cacagagtct tcaggatatt 120
attaggtgct caataaaaagt ttattgtatg agaataagca atattttctt tatctctcat 180
ttggttgtat ctttccctac tttgttattt cattttttct tacattttat cytygtattc 240
tgacactatt tcttagtttt gcttctgttt tccccagaag agtactttgg ttaaaatgta 300
tcacttgcaa aatagaataa cacaccgcca tgtagtggtg cttcagggtta taattttcca 360
tatatgtaca gtatgccaaa aaggatgctg cttctagaga gaatgtttaa aactcacttc 420
tctagatttt tttaaagtta ctttagtggt tc 452

```

<210> 1301

<211> 539

<212> DNA

<213> Homo sapiens

<400> 1301

```

gatcacttca tgttatgaag ctagtatagc cttcacacca tacagrctaa tctcactgat 60
gaataraagt atgtaattgt taattatyaa trttagcaac ttgaatctac aggtgaytat 120
raagtatttt tttagtttga agatagtttt ttccaraaat ccaaggatgg cttaatcata 180
tggaataatc aagggcaaag ccaagccaag aaggcttgaa araagaacmc trgagatata 240
ttataatgct ctaataatta aaatggtgtg gtattagggt atgaatggat raacaracca 300
atggaacaaa attgcgaagc cagatagaaa tcaaccagtc tgtggatcta ttaatttatg 360
ggaatgtctt ttgtgagata tatcaattaa tgggaaaaag actgtttaaa acataattca 420
gtgacagttg actgtatgga agaaaacaaa attaaaccct tatttcattt ccagatggat 480
ttaagactca tgtaaaaaag taaaactttg aaactcagag aacaaaaaaa aaaaaaaaaa 539

```

<210> 1302

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<400> 1302

```

gcaccagtgg catcgggacc agccccagtt tgaggtcgct gcagagcctg ctggggcccca 60
gtttcaagtt ccgccatgct cagggcactg tcttgaccg agacagccac atcaccaacc 120
tcaaggggct caacctcacc acacctggtg agagtgacgg cttctgtgcc aacaagctgc 180
gtgtggccgt gccgtgctc agcagcgs gs gacaggtggc tgtscttgag ctacggaagc 240
ctggccgcct gcccgacacg gcactgcccc cgctgcagaa tggggcagct gtgactgac 300
tggcctggga cccctttgac ccccatcgcc tcgctgtggc tggtgaggac gccagkattc 360
gactttggsg ggtaccgcga raagggcytk gaagargtgn tcaccamgsc anaaactgtg 420
cttacaaggc ca 432

```

815

<210> 1303
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (294)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (344)
 <223> n equals a,t,g, or c

<400> 1303
 tagcagcccc nntcttttaa ggcctgacta cagaatccag cagcttttgt ctggagagct 60
 ggactgaaga gaggcatagc tggagaccca tagctggccc tggccagaam cagggagagt 120
 gaaaggctgg aatagccaag gccagagcaa ggctaataagg tagagcaaca gcttacaggt 180
 gtgggggtgg cagatactgg cacccttgaa atggattcct catgcccacg cttcactatt 240
 cttctctgtg gctaggggag ttatggataa accaaaatta cagttaaaaa ccanccatag 300
 gccaggcaca gtgactcacg cttttaatat cagcactttg ggangacaag gtgggcggat 360
 cacctgaaga tctggaattt gagaccagcc tggccaacat ggcgaaaacc catctctact 420
 a 421

<210> 1304
 <211> 815
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (217)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (223)
 <223> n equals a,t,g, or c

<400> 1304

816

```
cagacctgtg tctgatactg ratacagtgc catggggaccc tgcctccaatc taactgccta 60
caacctgccc rtccccctgc tgcagggatg ttgctgctac ctggggaggc tctctgagac 120
tggtgtcttg tcttagatgc tgcacatagt acctggtgct aggggtctagg ggctgcccac 180
agcccagcag gaacagctac tactcatect gcagagnct tgncccagac cagctttcca 240
tccaaagcct cacctggttt ccatgtccat ctcaacagtc tggccttcct gtgactgtag 300
cctggcagcc acaccctcag taatcccrca cagtgagtc agcttctctg ggagcttggc 360
cttcagttag ccaggtccat gagagggcag ggtaatgagg aggagtaaag gacctatctt 420
ctctgtccac ataaggaagt tgggaccaca aggtctttta tctccttggt actccccaac 480
cccaccataa cctcctactc agcacacagc tttatcctgg tagattataa ggtgagcttc 540
cagaacctgg caggaggctg gtgtatcccc ctgcacagas ggaagtgtat ctgaatgttg 600
tgtatgtggc tgatatggaa gacatacatg tatgcaatcc atcagcgttt aaagaagaag 660
attggctcca gttckgagga ggaggaggaa gattacagat ctattctgag tatttttttag 720
agagttaata tttatatattt tagtaatttt ctggtagaag gaaattgcac aataaaatga 780
tttggtttgg wtwgaaaaaa aaaaaaaaaa aaaaaa 815
```

<210> 1305

<211> 529

<212> DNA

<213> Homo sapiens

<400> 1305

```
tcagtgtctt tcagtttgtc aaagagygga tctcaaaaatc ttgcttaaag ggtaaytgag 60
atgtagcaga tttattttact tagtcatgga aagaaaaaaa ttcagtcaaa agctaaagat 120
ttccttttga ttgaagacag attggttctg tggccttgga actttcccag acttaatggg 180
gaaacatcat ttctagatta gcatactctt tggtttaaata ttaatatata catttaatgt 240
tacttaggga tacttttata ttttgcatat ataaagcctc atatataaag cttattttct 300
gatgctctta gatttctgag gaggtagatg attaagttgt attcattagt gtattgggtat 360
ttcttcacat ccagtgaat tggaratatg ttgtatgtta gaagagcatt ctttaaattg 420
tggtgtcttg aacatgtgta ctttttctag attcagtaat cccttcccc crkcmtytg 480
agtatgaaac ctttagagtc acaataaaat gtaactaaag aaaaaaaaaa 529
```

<210> 1306

<211> 921

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<400> 1306

```
tagtaattat ggacttttaa aactatccat atataaccatt ctaacaaggg actctgatat 60
gtcagagta gaggtatctt tctatggntc ctcaaatctc ccagggaatt cactatcacc 120
agaatatagt ctcatgttcc aaagttagaa acaagcatat agtgagaatt catttggcta 180
tgtcttaaaa tattatttgt tttcctnttt ttgacagagt gaccttaaac ctgaaagtgg 240
```


817

```

tagcaaggta agaagtcagc ggtttgtctt gtgtttatat ttgtgtttac tcaagtagga 300
ctgctttttg aaacattttt tcttaacaag agaagttaca aagtatttac tttttcccca 360
agcaaaaatc ctatttttct ggaatttgga ctcagtatca tctcaggaat aaaagaatag 420
ctgagtcttg aacagtagga aacattttgc taatgccttt atacgccttt ttttttaact 480
gaaactccaa agctatgccc tgtgtggttt tgaaagaaat tagtttatgg gttcagttgt 540
ggaaaaatat cttactttta cattatgtag gacaagtgat aataattggt tctgtgttg 600
aaaaaaataa ttgcaaagtt gttttgtttc ttatagggtta tcttctttat ctgtaataca 660
gaggcctttc tgtacttatt ttccaaattt aattcttttt tcctgtaggc tcaaacaggc 720
ccacaccctt cccggttact tagtaataca gcgaaaacaa aagactaagt atttgagtgt 780
ttgaaaactt taatgtgtac tacattgcat accaggaaga aaatatggaa ccattttctg 840
cctcccacag cyargtggtt cattccctta ttccctaaca attttcctta atttctgtcc 900
ttcagatagc tggtagacag c                                     921

```

<210> 1307

<211> 802

<212> DNA

<213> Homo sapiens

<400> 1307

```

acgacgggta acatccacgt gggcggggggt gggcgggctgc ggccagccaa ggcccaggtc 60
cgggttgaacc accctgctct cttggcctcc acacaggaat ctatgggcct tcacagggcc 120
caggggctcc tgatgcccccc ttccacatgt gagccaggac atgaggcttc cctgaagcaa 180
ggatttcagc cagatgccat agaccctcag aacttgacct ggaagtccag aactgaacg 240
caggcctcaa aactgctgcg gccttccaac tcttggtatc tgcacggcg aatggccctt 300
cttgccctga tccacaggga tggggaaggg aatgtcatta atgttttgtt aatactgatt 360
ctttcatgca atgatgtgta ttttccatt ctggaggctg tgggagatga caagacaatg 420
aatgggaagg tctgacacag aacaaatcag cggttctgaa agcttgggga atctcagact 480
cctttgagaa ttattggaaa atggacccmc tawaacttgg cgtgtgtgtg aactgcttga 540
tgcccatcca ggaaagccaa gttaagaagc tttgcttcaa gtagacacta gaaatccatt 600
cccttggaat tttatacagt tcacgtctcc caccatccgt tcatctcacc caccctgcca 660
tctctccacc tatccatctg gctattgtc catctagctt tcccgtcca tctacccatc 720
ttccaatcca tcatctcacg tatctgcctt gcttatccaa ctgtctgcct tattcaccca 780
cccatccctt tatcattcta ac                                     802

```

<210> 1308

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<400> 1308

```

acaaaaaaaa aaaaaaaaaa aaaaaaaatt caggccgtta ctggagagtc ttgggggaaat 60

```

818

```

ttttttttaa aatgtctgaa aattttttcca cttaatccat tgatgaattt caaagcaatt 120
gtattttttc atacaagcct gccactgtga gcctgttctt attgtatctg agctntttgt 180
gntgcctgaa ttttgtctct taattttctt tcagcttcat agtgwtcat tttcaattg 240
tgttggaggg aaaaataatg gtagaaacta aaacacactt tgacctttt tttccaattt 300
gtagatggca tttggtaggc ttttgggagt aatagcctat ttcaaaaatt aaaaggtgat 360
gcaaaattat tgtgggagt                                     379

```

<210> 1309

<211> 1444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 1309

```

acccacgcgt ccgctaaaat atccccccaa accccagcaa tccaaaacac ttctggctct 60
aagcattttg agtaggggat actcactcaa cctgtatatt tgtgctaata catgactcat 120
tagaatgatt ctttgtaaac ttaatatattt aaaagtacag cacttctgta gtatggaagg 180
tttcagtaat aattatattc attcagtagt ctcttaccat tatctcccag atggaaaaag 240
aggactaatg tggaaacccc agaggggtgc cagttggacc agggagatat tagacactta 300
acagtatttt cagtctgtcc atctctttat tccaatgtga gaaatggaag tgtttttttt 360
tttacgttta ttggctcttc atatttctct acattatttt taatgtgcag tttcttcaat 420
tgggttagtat ttccatacta tttgcaactt tatggccttt aaatatagga catattatat 480
agcagaaatt ttgactttaa atcctcttga gtagtatatt ttgagaagaa aagctatact 540
gctcttcttg atggtttcca tcctttattt aggtcttttc tttttgaatt caagtgtttt 600
gtatgcttag aaagtagaca tgtataatat tgagatcggt tatttctgag ctggaaattg 660
gaaacttttg aaactcagga aattgctctg acaatgtttt aactgctctc aatttaagaa 720
aatgacgaaa tgtataaaaa agacaaaaat aacgtgtgct gttttttcca agtgcttttt 780
ctaagtgctt ttccattgtg caatgagggtg aagtttggtg atttttcggt gtagtagtta 840
aatattgctc aatttttatt tacatgtaaa gaaaacagat ttaaatgttt atgtggccaa 900
aagggtgcat ttaaaaggta aaataagttt atgtagaatg tatgttcnat ggtgcttatt 960
tttaaaatgt aattcaagtt tacagtatta cttaatgctt ctttacagat ttaatagaga 1020
aacaaggcta gaacacatct acatcctgaa gagccgttta taacttcata ttatatgatg 1080
acaaagttca ttattttcct taaagttgag caattgactt ttatggcca atgatgaact 1140
tattattaat aaatgattga gttaactgtg aggcttctca ttaaaataca atattgcagc 1200
tatcagtttg agaatatatt ataaaatttt cagacagtat atcagaaaaa tgtttttatt 1260
tgtactgtat agaaaatgta attttgctgt taactctgta ctttttaaat tgaaaatgtt 1320
ttataaattt gctttttaa tttcttatga agccatttgc aaattacata cttaatttaa 1380
taaaatactt tagccacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaact 1440
cgag                                     1444

```

<210> 1310

<211> 353

<212> DNA

<213> Homo sapiens

<400> 1310

```

atgaaactga actatcttct ttttcttttt attccttctg ggataaagga gaagtaattg 60

```

819

```

taggaaaggt tatgaaacca ttttacggaa aagtagttag aaattaagcc aggacaatgt 120
cattaagtct tcagtgcacat ccctaggtac agcttttgtg ttttcatctc cttttgtgtt 180
ttcaagtga tagcagaaaa accctttaat ggtgtgcttc ctgtactggg ctacacagtg 240
gtgtwccaag gtatatatga aaccacagtg taaacaaggc ttgtcttccc aagacatcaa 300
ttttgataga aaawtgtgtg tgttcatgtg tgtgtgtgtg tctgggtgta atg 353

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<210> 1311

<211> 927

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (729)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (903)

<223> n equals a,t,g, or c

<400> 1311

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ttttgcaaataa tagtaataac acaattttgt catttaaaaa attacccatt 60
catttttcaa acttgactgt tagtggaggg gtatatgtgt gtctgtgttt ccacttatgt 120
aatggctgtc tcattattta aattaattta taattatttt tcagtgtaca gagtgattag 180
cggcttgtaa tgctgttaca atgtagcatt gtaatgtaag atgaaggaaa aattaggatt 240
taggtgggat ttttaaaaaa ttatcaattc agctactttt taaaagaagt cctattccaa 300
ttggaccttt aaaattttta ttttggtaat atttcmactt argrtgtwtt aaaactrgcm 360
attctgtggg aatcagtgtg ctagtcaaca ttaaaatgct attttgggtt gtcttctttt 420
ggtaacatat tctgacacta agcaacatgt tttacaattt agtggratga acctacaaat 480
tcataaatgc ttctctttat tttgaaggaa aaagatactt gtctgtatac gacataattg 540
ttttactctt cagaatgtga aagttatatt aatcactaaa cactttaaga agtggttctg 600
gtaggatatc agtagtcaga cttaattgaa aaactgtcag cgtctgtttt gtatataggg 660
attaagaggg ataactttat tttttccttt ggaaagaata attcttttgg aattttggaa 720
ttttgatntt cttagatgac tttttagcaa tttaatgata ataatttcta ttnttcttcc 780
aaaactatgg catgttatag tagatcttac tattaaagat ctgtgtatat tttaaactgt 840
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ttnttttgtg ggcaaactgc ttattttt 927

```

<210> 1312

<211> 504

820

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (8)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (422)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (442)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (485)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (504)
 <223> n equals a,t,g, or c

<400> 1312
 aatcatanca ttttaatttta agattaagaa tattggcaaa gatttggtta tttttacctg 60
 tctttattca aatgttctaa tatacatag ttccaagttc tctattactt cttaaataagaa 120
 tatacatgat caaaagagta tgctctttc taaatgagaa aaactttata ttataaatcc 180
 agtgatacgg atactatcca tcattttgtt ttgtatggcc taatgtatat cagtaaaacta 240
 aatagactta aatgtggctg gattttgact gggaatatgg gaagaacaaa gcaggtgaga 300
 tcatgtatgt gactaaatat agcgttgatg cttaacgatg gcctctgagc atgttaagtg 360
 tacttatatt ttgcagccaa aaactgtatg tatcaagctc caaccatcta taataaagtt 420
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 ttcancata attcttaacc ttcn 504

<210> 1313
 <211> 864
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (815)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

821

<222> (848)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<400> 1313

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ctgcttaatt gaagtgtaat ataggttgta gaattgttac ctgcagttct atgggttttgt 60
ttcactttctt ttcttttttta aagccattct gttcttttga tgtgcttgaa aggggtgtgtg 120
attacaccat tggttaatgct gggtaaaaaac tatcttcttg cagccttgcc tcataacagt 180
ggaattttctg atagacaaac cacaggactt tgattttaag ccaaatccat ctccatccct 240
ttactgtcaa tcttctgtcc cagtagttta gcctttgtgg cttaggttat gatgcgcctc 300
cttctgtgcg accaatgaga cgacttcagc atctttttta aataatctaa gcatcattga 360
agcagtaaca caaaaaaaag gttcagtatt ttcttttttag tataacttac atccttttcaa 420
ataagtcttt gccctcatga agaatcccta gaggaagata aggaaaataa gtatttttcca 480
gttttgcttg acagtttcta aacaaacaaa aataaactca atgaaaggaa agatgttttct 540
tttttagctga gatgacagat tgcttctctg tattaatatag tctagaagtt aaggggatgg 600
tcacattttac catgtattgt gttatttagca gttaaatttt atgaatatgt ttgtaaaatt 660
gttggttttat atttcatgtc aaattgaaaa gtttatttct tcactattgt acctgtggaa 720
atacaagcca ttttacagga aaaaatcttc aaaaactatt aaatggatat cagcctgttt 780
tgtgagccat tgtcttcaga ttctgtggtt gtcnnggggt catagggcat tagtaggttg 840
tacgggtnga ccgatttttc cntc 864
```

<210> 1314

<211> 869

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (784)

<223> n equals a,t,g, or c

<220>

822

<221> misc feature
<222> (836)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (852)
<223> n equals a,t,g, or c

<400> 1314
tnaaccctca ctaaagggaa caaaagctgg agctccaccg cggtgncgac cgctctagaa 60
ctagtggatc ccccgggctg caggaattcg gcacgaggaa cagccaaagt ttatggaatg 120
gtgtgctgag gaggagaacc aagagctcat cgccaacttc aatgcccagt acatgaaagt 180
tcagaaggggc tggntccagt tggagaaaaga aggacagcca acaccaagag caaggaacaa 240
atcagataaaa ctgaaagaga tttggaaaag caagaaaagg tcacggaaat gtaggagttc 300
attggagagt cagaagtgtt ctctgtttca gatgctcttt atgacaaact ttaaattatc 360
taatgtttgt aaatggttct tagagacaac tgaaccggtg tctctagtca ttgtgaagaa 420
gctcaatact cgccttccag gagacgttcc ccctgtcaag catcctcttc agaaatacgc 480
tccttccagc ctatatccca gttcactaca ggctgagcgc ttgaaaaagc acttgaagaa 540
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ttcgagagaa tcctgatcaa cgtggagcca gaagatggca gtgatgtcag ccccgccct 660
aattctgaag acagcataga ggaagtcaag gaagatagaa acagtcatcc tccagcaaac 720
ctgcccactc cagccagtac ccggtattctt agaaaatatt ccaatattcg aggaaagctc 780
agancccagc aacgttttaa tcaagaatga gaaaatggaa tgcccagatt gctctnggtt 840
gttgggaagtt angccaagtt cgtaagagc 869

<210> 1315
<211> 1832
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1823)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1829)
<223> n equals a,t,g, or c

<400> 1315
gccggtggct gctgtctctg ggcgggccgt gggaggctcc cgaggtgggg gccggggcgg 60
gatggctgca gcggcgggccg gggccgggag cgggcccttg gcggcccagg agaagcagtt 120
cccgcggcgc ctgctgagtt tcttcattca caaccgcgc ttcgggccgc gcgaaggaca 180
ggaggaaaaat aagattttat tttatcatcc aaatgaggta gaaaagaatg agaagattag 240
aaatgtcggg ttgtgtgaag ctattgtaca gtttacaagg acatttagcc catcaaaacc 300
tgcaaaatct ttacatacac agaagaacag acagttcttc aatgaaccag aagaaaattt 360
ctggatggtc atggttggtc ggartcctat aattgaaaaa cagagtaaag atggaaaacc 420
agttattgaa tatcaagagg aggagttggt ggacaagggt tatagctcgg tgctgcggca 480
gtgctacagc atgtacaagc tttttaatgg tacatttctg aaagccatgg aagacggagg 540

823

```

cgtcaagctt ctgaaagaaa gattagagaa attcttccat cggatatttgc aaacgctaca 600
tttgcagtca tgtgacctac ttgacatttt tgggtggaatc agcttcttcc cgttggataa 660
aatgacttat ttgaaaatcc agtcctttat taatagaatg gaggaagcc tgaatatagt 720
caaatacact gcttttctct ataacgatca gctcatctgg agtggattag aacaagatga 780
catgagaatt ttatacaaat accttaccac ctccctttty ccaaggcaca tcgaacctga 840
gttagcagga agggattctc caataagagc agaaatgccca ggaaatcttc aacactatgg 900
aagatttctt accggaccct tgaacctcaa tgatccagat gcaaatgca gattcccaa 960
aatttttgta aatacagatg acacttatga agagctccat ttaatcgttt ataaggccat 1020
gagtgcggct gtgtgcttta tgatcgacgc ctctgtccac ccaacgttgg atttttgccc 1080
aagactggac agcatcgttg ggccccagct cacagtgtctg gcctctgaca tctgtgaaca 1140
gtttaacatc aacaagagga tgtycgggtc tgagaaagaa cccagttta agtttatcta 1200
cttcaaccac atgaatctcg ccgagaagag cacagttcac atgaggaaaa cgcccagcgt 1260
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cttgctttga agaatacat ttcgactcgg tctgctgac tgagggtttt agatttttaa 1680
tatttatgtg gaattaatta aaggtagttg gctatatcgc tatcatttca ttcttttgac 1740
attatgtgaa tattttactg gaaaataaga ctaataaatt gttaaaagtt tttaaaaaaa 1800
aaaaaaaaaa aaacggggggg ccncccaana gg 1832

```

<210> 1316

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (611)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<400> 1316

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ggagttatca agtggaggag ggattagaac ccaggatatct tgagcccaag caatttgaag 60
gtgtttaagc taattctttt ctatgttttt ctggctgttt atgtactttt gaagtcttta 120

```

824

```

tctttctgtg ttaaaatatg tctatcgta ttgcatttta cagcatcaaa aattaagaat 180
acttacattc ttctayaaat tgatgcttca aaatagaaaa tttggaattt cagaagctcc 240
agtacagtaa ctaatctgaa attattgatg cattttcttt cgtcagggaa taactttgaa 300
agattcaaat gattttcaaaa tccaactttc taacgtctgg gagagaattc ctcaaacaca 360
tttagcagtc aaaacaattc tatagagtat aaaagatgaa gcatggcact tcgaagtaaa 420
ggttacagtt tctataaatg agaaaaggcc gaatatttgc tagcaaaata tttttagcag 480
gaaagaattt actttgggag gtacttaggc atgttatatt aatactaata tacaagttca 540
gcaatttgta ggagtggaag gaattggatt aaagtanaaa gtcttaatat ctacaccntt 600
aaaatgggga naagcctgtg aatgtgactt aatcaaatcc tggtagntaa accagt 656

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<210> 1317

<211> 2520

<212> DNA

<213> Homo sapiens

<400> 1317

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ggcactggag tccgagtcgg cgcactcggt acctgaacag gcgttacagg ccctttggcg 60
cctgcgtatt cgtgaagtgt gaaaaaagcg cgctctgtt gggacgggaa atcagccttt 120
ctattgggtca gggtagaaaa cccgccttt gaggcatttt caaccaatgg aagcgcggca 180
ttcttcattt aaactgtcta taaatttctg cctagtcaaa gttaagagtg gcgccakgga 240
tttgaaccgc gctgacgaag tttggtgatc catcttccga gtatcgccgg gatttcgaat 300
cgcgatgatc atcccccttc tagaggagct ggactccctc aagtacagtg acctgcagaa 360
cttagccaag agtctgggtc tccgggccaa cctgagggca accaagttgt taaaagcctt 420
gaaaggctac attaaacatg aggcaagaaa aggaaatgag aatcaggatg aaagtcaaac 480
ttctgcatcc tcttgtgatg agactgagat acagatcagc aaccaggaag aagctgagag 540
acagccactt ggccatgtca ccaaaacaag gagaagggtc aagactgtcc gtgtggaccc 600
tgactcacag cagaatcatt cagagataaa aataagtaat cccactgaat tccagaatca 660
tgaaaagcag gaaagccagg atctcagagc tactgcaaaa gttccttctc caccagacga 720
gcaccaagaa gctgagaatg ctgtttcctc aggttaacaga gattcaaagg taccttcaga 780
aggaaagaaa tctctctaca cagatgagtc atccaaacct ggaaaaaata aaagaactgc 840
aatcactact ccaaacttta agaagcttca tgaagctcat ttttaaggaaa tggagtccat 900
tgatcaatat attgagagaa aaaagaaaca ttttgaagaa cacaattcca tgaatgaact 960
gaagcagcag cccatcaata agggaggggt caggactcca gtacctcaa gaggaagact 1020
ctctgtggct tctactccca tcagccaacg acgctcgcaa ggccggtctt gtggccctgc 1080
aagtcagagt accttgggtc tgaaggggtc actcaagcgc tctgctatct ctgcagctaa 1140
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gactccagcc agaaagtctg cacatgtgac cgtgtctggg ggcacccmaa aaggcgaggc 1260
tgtgcttggg acacacaaat taaagaccat cacggggaat tctgctgctg ttattacccc 1320
attcaagttg acaactgagg caacgcagac tccagtctcc aataagaaac cagtgtttga 1380
tcttaaagca agtttgtctc gtccctctca ctatgaacca caciaaggaa agctaaaacc 1440
atgggggcaa tctaaagaaa ataattatct aaatcaacat gtcaacagaa ttaacttcta 1500
caagaaaact tacaacaac cccatctcca gacaaaggaa gagcaacgga agaaacgcga 1560
gcaagaacga aaggagaaga aagcaaaggt tttgggaatg cgaagggggc tcattttggc 1620
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ttgtaaattt tttttttttg ctgtcatccc cactttagtc acgagatctt tttctgctaa 1740
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gttccccctg ctggttctaa tattaacaga actgcagctc tctgctagcc aatagcattt 1980
acctgatggc agctagttat gcaagcttca ggagaatttg aacaataaca agaatagggt 2040
aagctgggat agaaaggcca cctcttctc ctctatagaa tatagtaacc tttatgaaac 2100

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825

```

ggggccatat agtttgggta tgacatcaat attttaccta ggtgaaattg tttaggctta 2160
tgtaccttcg ttcaaataac ctcatgtaac tgccatctgt cactcactat attcacaaaa 2220
ataaaactct acaactcatt ctaacattgc ttacttaaaa gctacatagc cctatcgaaa 2280
tgcgaggatt aatgctttta tgctttttaga gacaggggtct cactgtgttg cccaggctgg 2340
tctcaaactc caccaaattg acttcttatt cattttatgg aaaagactag gckttgctta 2400
gtatcatgtc catgtttcct tcacctcagt ggagcttctg agttttatac tgctcaagat 2460
cgtcataaat aaaatttttt ctcattmaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2520

```

<210> 1318

<211> 582

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<400> 1318

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aaatatgtgt cttttacagt cttttgtcat tctgacattt ctggattttt gctgttttat 60
aattttaccct ttgttattca gaagcatgct tacttataga aactaaatgg tctttataaa 120
agtaattact taaaaagaaa tctggggaag aaagatatct atctaactta ttaaactctt 180
ataaaacatt acattgcaga gggggagcta ctcctaaata ttttcatgat ttgcatgggt 240
taatcagatt tttttttttt tacaccatat tagctacctt ttcaatggag aagagacagt 300
tcacacaatt cctgtrttag cacagatgtg gactgagtgc tttgtcacct gcagrtagt 360
aamccagtga tgtttcttac agaagcaca tatgttgaaa atccnggggtg tgaccaatat 420
ggaataaaga agaaggcaga aagagagcaa atgaaaaatt tcaacttgta tattcatttt 480
ttacattttg ctttgacttt taaatttagg aagtccgttt ttacctgagn acaaatgttt 540
aaagttcctg cgctactctc agtactctca ctgcccctcc ca 582

```

<210> 1319

<211> 1099

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1077)

<223> n equals a,t,g, or c

<400> 1319

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agccgggagg cgggaggcgg cggccgcggc ggctgctgct gctgcagtgg gacaggtggc 60
ggcgaccggc ggcgtccgag gagatttaac ccagagactg acttcactat agaaccaca 120
gttgatatcaa tggttgggga aagatagtgg caacaggcaa aggagaaaca gctctgacat 180
acaaagaaaa tgagtatgct aaagccaagt gggcttaagg cccccacaa gatcctgaag 240
cctggaagca cagctctgaa gacacctacg gctgtttag tagtccagtag aaaaaccata 300

```

826

```

tccagtga aaagcatcaag cactccatca tctgagactc aggaggaatt tgtggatgac 360
tttcgagttg gggagcgagt ttgggtgaat ggaaataagc ctggatttat ccagtttctt 420
ggagaaaccc agtttgcacc aggccagtgg gctggaattg ttttagatga acccataggc 480
aagaacgatg gttcgggtggc aggagtccgg tattttccagt gtgaaccttt aaagggcata 540
tttaccgcac cttcaaagtt aacaaggaag gtgcaagcag aagatgaagc taatggcctg 600
cagacaacgc ccgcctyccg agctacttca ccgctgtgca cttctacggc cagcatgggtg 660
tcttcctccc cctccacccc ttcaaacatc cctcagaaac catcacagcc agcagcaaag 720
gaaccttcag ctacgcctcc gatcagcaac cttacaaaaa ctgccagtga atctatctcc 780
aacctttcag aggctgggtc aatcaagaaa ggagaaagag agctcaaaat cggagacaga 840
gtattgggtg gtggcactaa ggctgggtgta gtccggtttc ttggggagac cgactttgcc 900
aagggggart ggtgtggcgt ggagttagat gagccacttg ggaagaatga tggcgctggt 960
gctggaacaa ggtattttca gtgtcaaccc aaatatggct tgttcgctcc tgtccacaaa 1020
gttaccaaga ttggcttccc ttccactaca ccagccaaag ccaaggccaa cgcatanggc 1080
gaattatggc gaccacgtc                                     1099

```

<210> 1320

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (663)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<400> 1320

```

ggcctgatcc aagtgaccat tttcctttta gtttgacttt ggggtgagttg cttagcttct 60
ctgagcctca ttttcttcat ctgtaaaatg ggggtgggtca gcattgttgt tggaggaacc 120
gaatgcctca cccatgggtg gtacttcata ctgttagtgg tgggcagggtg tcctgtcagc 180
ccctccaag gaattcacca cccagcgagg ccactaaaac ctccagagta agtcaatcag 240
ccatactaag gaaagtgcata agggggacag acaagggtgag aagagaatcc tgtgggctgg 300
aggctgcaag gaataagcca agtagaagga gaggaatccc agcgggagga atggggggag 360
caggggcttg ggagatgagg acaggcttag tgatggtttg tgggagacag ctcttgaggt 420
ggagagcagg aggtaggggg tgagacaaaa gtagaagagg gcttcagacc gcaggccac 480
aaggaggagg tccatgagcc cctgaagctg tttgcacaat tgttcctgta catgtatttt 540
tctgcgaag actctgtggt tcatcagat tcttcaagta gtctggggcc attaagawtc 600
cctggtccag ctgggtgcgg tgactcatgc cttataatct tcagcacttt ggggagggcc 660
ganggcaggg agggattcgc ctagagccca ggaagttttg gaggaccagc ctgnggacaa 720
ac                                     722

```

<210> 1321

827

<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<400> 1321
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taataatgta agctgttgat atgacagtat tttttaaaaa taataacgta tattatagtt 120
acgaaacact tgtgccagat tagaacatca agcacagaag cagctgtatg atttacctgt 180
twttttgaaa ctttaattgtt taccttcccc katgtttaat ttttctgtgg tgaacacttt 240
tgttagaaca tggct 255

<210> 1322
<211> 246
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<400> 1322
gcaaaaatac cataaactgg gtgtcttaca aacattttctg aaagttctgg aggctgggaa 60
ntctaaggta aaggtcccag caggttttgt gtctggcnag ggcccattcc tcaactgcctt 120
cttgctgtgt cactgcatgg tgggaggggc aagcaagctc ccacggcctc ttttacagcg 180
gcccarrattc cattggtgag ggttctgcca tcatcacatc atcaccacgt caccttcagg 240
gctagg 246

<210> 1323
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)

828

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<400> 1323

```
gaaaaacaag aaatagaaaa aaaggaagaa ggctgaacta aagcactaat tttataggtt 60
tagttttgtc agaatttagg acatttgga tcctaacatt aaaagggaa ttatagawgt 120
ctgttcatac cttgtacagg aattctttgt acagcatccc tgtggaaggg cattttaacc 180
cacattcaat tccttcagtc ctaagaacca gctccaaggg agcttgctcn tctagctccg 240
tagtagccac cctggactta catgtttgaa tgcacctggg agggttttaa aagatcaagt 300
tgcccaggnc acanctgcaa accaattaaa atcagaatt 339
```

<210> 1324

<211> 366

<212> DNA

<213> Homo sapiens

<400> 1324

```
caatgccctt watatgtsct ctkgtttcag ggaccytggc aggaaacact cgaattgggt 60
gatttraggga gattgtggta aggggacagt ttacaaagct gtgggcatgt ataggaaagc 120
gcaagggata ggacaggggtg ccgggctatt tatagtata ttcacctctg gcctgatact 180
gggaggaggg ggggtgctcc ctgggacaag accctatgga tgaggcttcc tgacaagggg 240
agactgtgac cgtgctccct cctaccagag ctccctactg gccagccca agcagaaaca 300
agagccatt caggtccatt cgtgtcatct cccaccgcc agtgcagagt ggagaaaagg 360
tctgga 366
```

<210> 1325

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 1325

```
aaacaatttg cttctggaaa caggacagcc ggggccgtgt tcctgcaaca gcagaccaag 60
caccgcgggc ggaccagggc aagcacggaa caagctgaga cgatgataa tatggataca 120
aatctattc tagaagaact tcttctcaaa agatcacagc tcttagaaat gtgctacgat 180
gtctgtgaag gcatggcctt cttggagagt caccaattca tacaccggga cttggctgct 240
cgtaactgct tgggtggacag agatctctgt gtgaaagtat ctgactttgg aatgacaagg 300
tatgttcttg atgaccagta tgtcagttca gtcggaacaa agtttccagt caagtgggtca 360
```

829

gctccagang tgtttcatta cttcaaatac agcagcaagt ccanacgtat gggcatttgg 420
 gatcctgatg t 431

<210> 1326
 <211> 424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (48)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (138)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (295)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (392)
 <223> n equals a,t,g, or c

<400> 1326
 taatttttcta ttttttagtag agaaggggtt tctccacgtt ggtcaggntg gtctggaact 60
 cccgatctca ggtgatccac ctgcctccca aagtgtctggg attacaggcg tgagcaccac 120
 gcccaggctc tgacattntt gaatatccct atcaaccct ctcaccacc caaagcctgc 180
 tgctcaaagc agctctaagc agaagagatg gagaaacatt cagactgggt ggagcatggc 240
 ccaggctgtg ttgctgcca cttctgtcta gatgggcagt tcttgacttc cccgnctgac 300
 gctgctgagc agccacagtc ccgactgcat tctggcttgt acccttacta tagtgccagc 360
 cacagagagc agccagcagc attttaagta gncaggaaag gcccttctca cagcagtgtc 420
 tggg 424

<210> 1327
 <211> 315
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (303)
 <223> n equals a,t,g, or c

<400> 1327
 gcttttttct aattgaagct tggcaagcrg agggaaatgt attagggaaa tagctttagt 60
 tttgagtggg tgtcagtagc cagctgaaga aaaagcmaaa tgaaataggt agtagaaatg 120

830

```

agaagggaga gagggaaaga aagaaaaaaa tggatgttgg aaattttgtt gcatgttctc 180
tctggatact ccaaaattat cattgtgggtt attgcctcac ttggcttttg ttagccatga 240
aaaaccagga acatttccac taccatttcc tgaccatcca tcaaccacaa tttttaggca 300
ttnggttaaa atttt                                     315

```

<210> 1328

<211> 1867

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 1328

```

cagtttctca agcgaccgat gttgaggtgg gaactgacct tgtcccttct gtcacggtga 60
aggtcacact gcagaacaga gtantattgc aaaaagccaa attatcagtc tacgtgcaac 120
caccattaga attgacttgt gatcagttca cttttgaatt tatgaatcga aatcctgatg 180
gcattccgcg agttatccaa tgtaaattta gacttcccct aaagttaatt tgcctaccag 240
gtcagccttc aaaaactgca agccacaaaa ttactattga taccaacaaa tctccagtca 300
gtcttcttag tctcttccca ggttttgcca gtcagtcaga tgatgatcag gtgaatgtaa 360
tgggttttca cttcttagga ggtgctcgaa ttactgttct tgcctccaaa acttctcaac 420
gatatcgcat tcagagtga caatttgaag atctttggct cataaccaat gagcttattc 480
ttcgccttca agaatatattt gaaaaacagg gagtcaaaga ttttgcattg tcttttctcg 540
gatctatacc ccttcaagaa tattttgagt tgattgatca tcattttgag ctacggataa 600
atggtgaaaa attagaagaa ctcttatctg agagagctgt acaatttctg gccattcaac 660
gccggctact agcaagattc aaagataaaa ctctgcccc tcttcaacac ctggacacct 720
tgtagatagg aacctacaag caggtaattg ctctagcaga tgcagtggag gaaaaccaag 780
gcaatctgtt ccagtcattc accaggctga agagtgccac ccatttggtg attctgctga 840
tcgcgctgtg gcagaagctt agtgctgacc aggttgctat tctggaagcg gcatttctgc 900
cgctacaaga agacactcaa gaattgggct gggaagaaac ggtggatgcc gccatttccc 960
acctgttgaa gacttgcctg tcgaagagtt ctaaggagca ggctttgaac ctcaacagcc 1020
agctgaacat acccaaagac acaagccaac tgaagaaaca tatcaccttg ctctgcgata 1080
gattatccaa aggtggccgt ctctgcctaa gtaccgatgc agcagcccca cagaccatgg 1140
tcatgccagg tggttgtact acaatcccag agtcagacct agaagaaaga tcagtagaac 1200
aagactctac agaactgttt accaaccaca gacatctcac tgcagagaca cccaggcctg 1260
aagtttcacc cctccaagga gtctcggaat aattcaagta gagttgtttg gttgagagga 1320
acatccccat ctcaaggccg aacctgtgtg aacctcatgc caagcacaga tatagggctg 1380
gcgcaggtgc ttcctaaagc tcaccttcct ggagatgaca tgcatagaaa gaggggttgg 1440
gactttttac ttcactagga gaacttgtaa caccatgggg aagtcagctg aaacttgtct 1500
tgttttgcca ggaaaggaag tagttgcctt tggatcatca tctgctaata gtcacagaat 1560
acagtgaat gacatagttt tgggttagat tttataatgc aaagattcag atccaaaata 1620
atttcatacc ccattttttc acagaattct tatatagtaa atgtatcaag ttaataaag 1680
catctcattg tcaaataata tcttggtatt tatttataat tagagggatt tatgagtgat 1740
tgctctacat tatttcttca aaggaaagga aagggaattga agactttgct actctctggt 1800
aagacttgaa tgtgattatt ttataaataa ragaaccact atgaaacttt aaaaaaaaaa 1860
agtcgac                                     1867

```

<210> 1329

<211> 537

831

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (130)

<223> n equals a,t,g, or c

<400> 1329

```
ggttaaaata taaccacaat gaatccgaca agtcactgca aggactgtgt gctttatatt 60
gatttgatcat caggaatagg cgatacactg tttggacatc atgaaggaac aatgcaaaat 120
ccatccttttn aaaattcatt ttttaagttcc atagaagatc caaaaaacca gacttttaga 180
gtataagcag tcaaacttaa gaaaatatta tatttactta tgaatagatg ctaagtcaaa 240
agtaagtccc taataaaattt taatgtactg ttgttacta aatgttccta gtcatttggg 300
ctcagtagtt cagtcattta tcataatgtg tatcaagata gttactggat attgaggtat 360
tggtttataac attacaaata gaaaaatcct agtgtttggg ataggaaatt aatcatatct 420
tgctgatcca aacagtggag tgcttttctg gacattatag atgataatgt aggtatttgt 480
tgatatacag agataccaga aaaaagccca tatttacgat ccaatgccta ttttgta 537
```

<210> 1330

<211> 1351

<212> DNA

<213> Homo sapiens

<400> 1330

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ctcagactgg tctcaaacac ctggcctcaa gtgatcctcc tgcctcagtc tcccaaattgc 60
tgtgattaca ggcacaagct actgcaccag gcctctgact acatttctat taatatgggt 120
aggttggagg ttttagtatt tttgtatctc atatttgtat caatatgact ggcttctttg 180
tctgtagtgt gtggaatat tagttctgta aactgtcagt tgcaaaaaaa aaaaataacct 240
tgaactatag tatatgttga taattagcca taataatttc ttagttaatt tcttataatt 300
aaatttgtca aagaggaaac ttacagttaa tatctgatga aatctctaaa aagatgggta 360
aaacattggg aaatgtatgc atgtacttca ctctgggttc atagggttag caagtgtctt 420
aaaaacatat ataaagaagc acagagattg ttaggagata tttatgctcc cagttttaat 480
aattgggata ctttgtatac cacagaaaga aaaattacta aactcctctt tttttagtca 540
aaattggaaa aaaagtctta attgacagtt actatgcctg tgctacccat agcaagtatt 600
cagtggaaaa tactttacta agtaagtaat ttgaacacag cttaaaatcc atagtatgtt 660
acaattgcta gcctttcaca aagtttgcac tgtcttaatg tagaaggata ctgtgatcta 720
agaattcaca attttaaaaa gtggaaccta aatagggttt cctaattgcc atgaagtatt 780
ttgtatctta gatgaattat atttacaaca ttgtaaatgt cagtgggtga tccaraataa 840
attgtttrrag ttattaraat gtacatttra gtaggtttca gtttgactag aaataattgg 900
caagaaggca agaactagtc ttctagagca gggatcccat ccccagggtc atggactggg 960
actggtccat ggcctgttag aaaccaggcc acacagcagg agatgagtgg aaagcaagtg 1020
aaacttcatg ggtattttaca gcaattcccc gtcgctcgca ttaccacctg agctgtgtct 1080
cctgtgagat cagcagcagc attagattct caaggagcac aaaccctttt ggaactgtgt 1140
gtgagggatc taagttgctc atttcttatg agaatctaata acctgatgat ctgttgttgt 1200
ctcccaccac ccccgatgg gaccatctag ttgcaggaaa acaagctcag gctcccactg 1260
attctayatt atagtgaatt gtgtaattat ttcattatat ataacaatgt aataataata 1320
gaaataaagt acataataaa tgtaaaaaaa a 1351
```

<210> 1331

<211> 1231

832

<212> DNA

<213> Homo sapiens

<400> 1331

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ctgaacactt gaaacatgat gaaagagcca cagagttggc agaactgttt gaaaatgctg 60
tgcaagcggg cttctctgtc ttctttatgg ccagtaaaat tctccagaag agatttatgg 120
cagcctcact cccagtagtt tctgcattta gtgagataag gaatggattt tcttctgtgt 180
attgctgaca cgaacaggag acggaaatac tgagtagaag agrgcgggtt cctgctaagg 240
ccccaccctc aagcctggat acccgcggcc ctaaatgaga agaggcgttt ctgtttgggg 300
cccaaaaagt tgccttttga cccaccacgc cccctatect gccccatat aaaccccaaa 360
ccccaacctc cagagcatac cagcaggtga ggagatacga ggcaagccga ctgacggcaa 420
aacgacgtag cagagaaaga gagaagagga gggacgtctg gacaccgaga gatgtttggc 480
tcggggcagt cagagcggag tccagcccct gggcgggcca actccagggg aagatcacct 540
tcccacttca tccatcccca cccttcacgc tcccacatcca tctgctgaa agccatttcc 600
accactcaat aaaacctcgc attcatcctt caagtccgtg tgtgaccgga tttttcctgg 660
attctggaag agagctcggg atacagaaag ctgtcccctg gtcccttgcc cttgtgaaaa 720
agcagaaggt ccattgagct ggtaaacact ccagctgtct gtggtggcca agctgaaaga 780
gctttgtaac actgggggtg caggcaccca cctctagacg ctaccgcaga gccagagccc 840
aaagccctca ccccgccctc tgcacttgcc catctgcgtg ctccccctct cgcaaggggt 900
ttctgcagag ggggctactg aacaggtgag ccacacccct gtcgcacgcc ctgcaagggg 960
aatcagggaa ctcttcctgt tcattgcttt gaccacatcc tataaatctt gttctccttg 1020
tctttcagct ccaatttggt tatacattca gtttttactt ttgactttac tcatgattta 1080
ttatagaaag atgtttaaca attttcaagc aaatggaata atttttgctc ctctttcgtt 1140
gttaatttat tattcattgg agttagaaaa ttgttgctaa aataaattct gcattttgaa 1200
atttaaaaaa aaaaaaaaaa aaaaaaaaag g                                     1231
```

<210> 1332

<211> 1280

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

833

<220>
 <221> misc feature
 <222> (133)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (154)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1166)
 <223> n equals a,t,g, or c

<400> 1332
 cacgacaggt ttccccgactg aaaagcggnc agtgagcgca accccantta atgtgagtta 60
 gctcactcat taggcacccc agnctttaca ctttatgctt cccggctcgt atgttggtg 120
 naattgtgag cgnataccaa tttcacacag gaancagcta tgaccatgat tacgccaagc 180
 tctaatacga ctactatag ggaaagctgg tacgcctgca ggtaccggtc cggaattccc 240
 gggctcgaccc acgcgtccgg gaggcagagg ttgcagttag ccgagattgc gccactgcac 300
 tccagcctgg gtaacagagc aagactccat ctcaaaaaaa gaaagaaaga aaaaagaaag 360
 tacaagttta taaagtatta tagtgaaaaa ttcgcattct ggctgatttt aagccattta 420
 aaattttatat aaaacaacct tccataaaaa tttgacaggt gccagatgt tgctttctcc 480
 attttttttt tgtttttttt taatcacagt aggtctgata gagaattgga gctaaattat 540
 aatatttttg ttggtaaagt tgagttatat acttgtacat acaatggaaa tgcttttagt 600
 agtgattatt tagcaatttt tgtttttgtt atattaggca tgtttgaggg ctttcctatt 660
 ctagcattta aattttaaatt ttattaaaaa taaataattt aaatctagca tttaaattta 720
 aataatttaa gtctagcatt tactttttaa taattataat gaagttttga aatactaagt 780
 taatccagac ctttagttgt cccatgggtg taataaagtt gccaaagaag atgtattatg 840
 aacaattcag caataagaca attgtcaaca cagttgagaa taacaatggt aatcgttagt 900
 aatattttaga attggaattt gcctactgaa atagttatag atgattactt gtgatgtgaa 960
 actgaattga gcatgacaac cagacatttc cagttgggtt tgtaagtttt gagaatctag 1020
 atactgggtt ttattttttg aaagattagc tctgtttgta agggctgatt ccttgaaaat 1080
 gtaattttcc agaaaaacac ctaaagaaaa taaaacatgg acatgcctag taaaaaaaaa 1140
 aaaaaaaaaa aaaaaggggc ggccgntcta gaggatccaa gcttacgtac gcgtgcatgc 1200
 gacgtcatag ctcttctata gtgtcaccta aattcaattc actggccgtg ttttacaacg 1260
 tgtgactggg aaaaccctgg 1280

<210> 1333
 <211> 128
 <212> DNA
 <213> Homo sapiens

<400> 1333
 ttggccaaag aggttaaacc ccggggggttc cccgggggaa aaattttccc ccccgggggg 60
 gktyccggaa acccccacac cggcccggtt yccccggggg ttcccaagtt taaaaccca 120
 aaatttgg 128

<210> 1334
 <211> 438

834

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 1334

```

catgcgcaag gagaagcgcg tgtacagccg cttcgaggtc ttctgcaaga aagaggaggc 60
cagcagccct ggggcagggg aaggccccgc ggaggagggc accaggggac agcaaggtgg 120
gcaagttcgt gcccaanatc ctgggcacgt tcaaaagcaa gaartgatct tctggcctgg 180
caacccargc caggtgcccc catcgctgcc ccggtcatcc agaacccccgc ggaacarara 240
ccctgctcat gtgcttgagc agcggctgtc agccacggcc gcttggggct tggctgagtg 300
cgccagacct cggctccact ggaggctcaa catgcagctg ccgtctctgc cccctggcct 360
caccaacagc tgggctgcac ccctcgccac cagtgccttt ctccccctcag caccttcac 420
tctgcaccgt cagccttg                                     438

```

<210> 1335

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<400> 1335

```

gctcacttta cctctcagag actacttggc gaatttctgc actggtgtgt attctcttgc 60
ctggcaagtt aatagactaa gtttcacttt gtgtgtgtgt gtgtgcatgt gtgtgtaagc 120
actggtgggc tttgttttat tctttgtttc tttgattcct gtgccacctc ccttccccat 180
tctcccaaaa aagacaagac aaaattaagc acaaatcctc acatttktgt gtgtttatca 240
katacactta caactgtgcc cattattatg tcaagttaca taccttgcaa aatatggggt 300
gtctcctata ctgctggcct gcattctcacc ttggaaggca aaaaanaagg          350

```

<210> 1336

<211> 490

<212> DNA

<213> Homo sapiens.

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

835

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<400> 1336
aagggttttga ctgtgttggg gtggggggtt ggtaagggaa tggtaagac tgagaaagga 60
atgaaatcca ttcaggaaat atcgacaggg ctacacrtga tgtcccaaaa ctgctgctat 120
tgaagaactt cccaaaactt ctttacaag ccctaaagga aagtttgcac ctatgaaaag 180
ccaatagggtg agacatccaa ttgctgcatg gaaattgatg tacattcagg ggacggcaaa 240
aatagctgta aaatagtga aaagagcagt ggttgtgctc ttttctggcc aatgrtttac 300
aaaaggaatc tacttggact tctgtcccgg gggtkgaaat ccttaggggt tkggaacttg 360
tgggggaaca tttcccaact tggctaaggc aggggttccn ctgggggagg ggaaggntct 420
attctggggg aanttcaccc ccccggcggc accacacttt tcccccggg gttccccaag 480
ggccccgcag 490

<210> 1337
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (734)
<223> n equals a,t,g, or c

<400> 1337
atagaattct gatgattatg accttctgat aatgaacact ttttccttta gaggattta 60
aaaatttctg tatttttgaa atcagtacta attgtcattt ttttctctca cagcttcata 120
ttctccaatt cagcctcatt ctctaataaa acatcagcag attcctcttc attcaccacc 180
ttccaaagtt tcccatcatc agctgatatt acaacagcag caacagcaaa ttcagccaat 240
cacacttcag aattcaactc aagaccacc cccatcccag cactgtatac cactccagaa 300
ccatggcctt cctccagctc ccagtaatgc ccagtcacag cattgttcac cgattcagag 360
tcacccctct cctttaacag tgtctcctaa tcagtcacag tcagcacagc agtctgtagt 420
ggtgtctcct ccaccacctc attcaccaag tcagtcctct actataatta ttcacccaca 480
agcatttatt cagccacacc ctcttgtgtc atcagctctc cagccagggc caaatttgca 540
gcagtcact gctaatacagg tgcaagctac agcacagttg aatcttccat cccatcttcc 600
acttccagct tcccctgttg tacacattgg cccagttcag cagtctgcct tggatcccc 660
aggccagcag attgtntctc catcacacca gcaatattca tccctgcagt cctctccaat 720
cccaattgca agtnctccac agatgtcg 748

<210> 1338
<211> 112
<212> DNA
<213> Homo sapiens

836

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<400> 1338

cctaggcctc ctattttattc tagccacctc tagcctagcc gtttactcar tcctctgac 60
 aggggtgagca tcaaactcaa actacgccct gatcggcgca ctgcgagcan ta 112

<210> 1339

<211> 622

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<400> 1339

ncgtcgagga gcctatgaat gcgatatcag cgttatcaga aagscgaaaa aaacttaagt 60
 tgaaccatyc taagtcgggg actgtctrct cacccttgcc gacttgacct ctttttcccg 120
 gttctctaga gtcagtatac caccagcccg ttctccaccc cgcaaggcgt gctttggaag 180
 cctgactcta atcgcgctct cccctgccta aaacctgct gtgatttccc attaccctta 240
 gtacagagcc acattcctta acgtgtccga cgtgggtccg ccctcccaca cgtctgcagt 300
 ttcgttttcc gccagccttg gscttgcttt ctgctcttcg gttcctcaca ccatgattcc 360
 tctaggccar gcgtttgcat gcgctgtctc scctgtaaaa ctaacttccc ttccttctgtg 420
 ggctcagatc ccggctcagg tagcaggtgt gaggtcaagc agaggaggtg aatcttcttg 480
 gagagcaggt agcatagtaa gaagaaagg ccatggtcag aacctggag aacaccggtg 540
 attaagaggg aggganggag ggaanggat tanggaagga acagttgata ggaggagaag 600
 cagagtgtta tcaacgaaac ct 622

<210> 1340

<211> 624

<212> DNA

<213> Homo sapiens

837

<220>
 <221> misc feature
 <222> (81)
 <223> n equals a,t,g, or c

<400> 1340
 gtaacaggag gatatcgtaa ttttctactg ttttattcct ctgttagacc gggccttgac 60
 atgaatgacg ccgtaaggga naaagagatc ttcccaatca gcaatcaccg taaaagcctg 120
 ctgtgttccc gttaaaatta ggaaattctc actagatgaa ttgacatggg aggcatttag 180
 atttctaata gtcacatagt aattctgcgg aggaattgag tcatctttga tagccatgga 240
 attaagcgat gttaattaaa gtgcaaaaga taacctttct gttcttacta gaatagagta 300
 ataaaaagaa cctagggtttt cttttgtttg ctggaagaaa aatcaaaatt ctttagttct 360
 gtcaaacagg aactcttgaa agcactttga acaatgcctg gaaaataaca ggtactctgt 420
 aaatgtttac cttctctgca agtgccctgcc acgtgcccga agaaaagaca cattaataag 480
 ttaagtgaac ccagtcctga ttttatatat tttatatacc taacaacgta tatgttagta 540
 tgtagaaaatt atatacctga cttttttccc tacctattac gaactgtact tttattaaaa 600
 gctgccactt aaaaaataata aata 624

<210> 1341
 <211> 962
 <212> DNA
 <213> Homo sapiens

<400> 1341
 tattcattct tttggtcacc tagggatcct ctaagtgtga tattactttc agagaattca 60
 gacaagtgag aaacaataat gtaggagtcg gcaaagcaga attcagagac ttcagccaat 120
 cactgctgct ctgagaggat ccagttagag actcagtatc agcggtcaga acttatctca 180
 ctctgtgtaa ctttcaggct ggacttaaag ctgccaaagt tcccctgcag gaaggaaaca 240
 ctgcytcctt tcagcaggta gtcatttrga aagccaamca ggcaaacgat cctggcctct 300
 cccgccagct gaccgctctt cagcatccat gcggttttga gtcgtgactt tctcagtcac 360
 gatcaagggt gattttttct taaatatcaa gctgttcttt gaacagggaa tgaacatgag 420
 tttttgtaac gtgactgaag ttgagtttaa gtaggaagcg caggaagttc ccaagtgcc 480
 ggtgtgtgta gtcagaggtt ctttttacag tgagggtgtc ctactgggg gagcttccak 540
 gatcctgagc agactggaca caatcatctc tcccttctc tatgtcaagc actgttaca 600
 aagactgtga gcaaatctcc atctaaatat taataattct gaagaagagg caaaactgtt 660
 gaatgcaagc gatacctatt gttgaagaaa cccacaaatt tctgattcta agatcagggg 720
 atacaacaaa atctacaagt catttcaaat agcacacagg aatcaaactt tggtaaatca 780
 tttctgaggc acaattaaat atattgtagc actatgttaa ttaattatat taaatgtcga 840
 ttcactctga atgtattctc aattgcctac caaaaattgg tatgattatc atttctgggt 900
 ctactgattt ttcatcatgg caacagaaat tgtcattaaa tagaattaag atacaaaaaa 960
 aa 962

<210> 1342
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (234)

838

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<400> 1342

```

agcgttggtta gtgcatgaag acaagctgcc agagggtttt ggttgatatgt tacacagtgt 60
gactagttcc tatctaaaaa ttagtgtact gtatttagct ctttatttaa aagtgaacac 120
taatttaact tatcttaaaa tattttaata gttcagacta ataatcatgg attttatggg 180
gattttgaaa gctttgtgtc aagaccatat ttttaacaat atcagaagct ttnnantaag 240
gtgcttggtg ctgagctaata ga 262

```

<210> 1343

<211> 833

<212> DNA

<213> Homo sapiens

<400> 1343

```

cggacctggg gcgcctttgt ctaacagatc tcggtttcct aaaaaactaa accgcctggg 60
gctgtcgtec cagagcccgg cagttaggac catgcgggaa gtgtcctggg gcatatagtc 120
atactgatga ggtgaaagat acacctcgga accaagggcc accctctact ttttaaggaca 180
atggcgccgg gaccaagaaa ctacacttcc cagaaaaccg tgcggccgtg gcaaactctt 240
ctgggtctag cgtgcgctca cactaatgtt tatctcccg gacgtgggca gaccttgtag 300
caggcgagct ctgccttttg ctagcaaaaag agctcctctc ttcccaaacc ctgctactac 360
gctgtccacc ctgtatggtc tttgaggtct ttgaggtttt tttggaattc acttgctgga 420
gactacagct cacagaacgc cctgggctgg attgtgccag ctgtagtctg cgaaccaagg 480
acatttctctg gaaatgcatg cggccacgta tctgtgacag aaatggcagt tctcacgtgc 540
gttacgcccc ctggaaggac ttggaataac ggaacttgag tgagcactga gaggacacag 600
accctcatcc tgggaggagt cactcctccc gcagccatca gagcctgaca accgcttctc 660
accagaggcg cttcttagac cctgaccttg cccggctcac ccaaaggggc aatggccttc 720
tttgatatgca agccagacag tctactgttg tatatttgaa ttttttactt tatttttaatt 780
attttaatta aattttaatt taatgctgaa aaaaaaaaaa aaaaaaaaaa ggg 833

```

<210> 1344

<211> 446

<212> DNA

<213> Homo sapiens

<400> 1344

```

tgagagtctg acatgcatat cataattttta tgtcaggtat tatagatatt ttgaaatggt 60
gactgactct tttgaaattt taagttcttt agaatgtgac gcttttaata tagcctctgg 120
ttttagatgg agaaacacta tgctattgtc attaaaaatt aattctattt ccccaattgt 180
ctaataatatg tcttaaaaaga tctttcatat tgtgaaacat cagagggtac aacctttggt 240
cttcagttta ggtattaaag agcacacaga atactgtgtg attaaacatg taaggccaga 300
taatgcattt gcaaagggtc ctttattttta ggtttaagcc tgcataattg tgggtcttaatt 360
ctcaggatag caagaaagag aattgtacat gaaagtattt acacaaagtt cccaaagccc 420
tgtgggattat gcattagttt agataa 446

```

<210> 1345

839

<211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (299)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (345)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (361)
 <223> n equals a,t,g, or c

<400> 1345
 aattcggcac gagcagacct ggattgactg aggtgaaggg gctccttgca gcaatcacac 60
 agaaggctcg ggtcttaaga ttggccctgc tctagtcaa gctgtatgaa ccagggtagt 120
 cactccggct ttcagggcct tgatttcctt gtctgtaaaa gggactttac gatgcatctg 180
 gcaacctcac cttcctcact gggcaatktg aagaccaaag gccggcaatg aaattcccag 240
 cattaggttt gtcatatagt agtcctctct aagcatttgt tgaatactca caggacant 300
 taggccagtc agcattattg aaataacagg tgggggtttt tttanttggt ttgttctttt 360
 ncgaat 366

<210> 1346
 <211> 426
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (340)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (425)
 <223> n equals a,t,g, or c

<400> 1346
 ggcaagggaa ccccaagctg cagaagctga aaggcgggtga ggaggggcct gttctgatgg 60
 cagaggccgt gaagaaggct aatcgtggca atggcaagac ttcttctcgg attctcctcc 120
 tgaccaaggg ccatgtgatt ctyacagaca ccaagaagtc ccaggccaaa attgtcattg 180
 ggctasacaa tgtggctggg gtgtcagtc cagccctcaa ggatgggctc tttagcttgc 240
 atctgagtga katgtcatcg gtgggtccca agggggactt cctgctggtc aagcgagcat 300
 gtgattgaac tgctgaccaa aatgtacccg ggctgtgctn gatgccacgc agakgcagct 360
 tacagtcacc gtgactgaga arttctcart gaggttcaag agaacagtgt tggcttgatc 420

840

aaggnc

426

<210> 1347

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 1347

```

gggcatcact ggtctcgcgt gcgcgtgacc aggncccggt ttccggtgcc aggacctttc 60
cgaagcgtcg agtggcctaa cggtcacagc tgtcgcccat cggagaggca ggactactgc 120
gagcagtttt accgcgacct ccggagccgg cgtgacaggc tctgtcayta aaatagggtct 180
gtccagtcgt actttttcct caccttgaac tttccgtcac gggaatacac gatttggttt 240
aggggcccggg gctctcctga ggagagaggg tttgctttgc ggggaagagc gagtcttgac 300
ttcgcagcct ccaatttcag ccgcggtgtg gaggggggtg ctttggggtg tccccacagc 360
ctttccggag tgcccgcgcg tgtragcttt tgagatttga caatttgtga rgtgcttggt 420
gctgaatttc ggggacgaca ggatcctttt acagtcattc tcctgtcagg graggcargt 480
ggggagcgag gaagatcaga wtcgtaacag acttgagtta aagaattgac aaactcccg 540
gntgatttcc tgtcanacct tttgcgg 567

```

<210> 1348

<211> 582

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<400> 1348

```

ccacctggag ctgcttcctg agttggcaca ctatcgtgta cacagcagtc ttcagcccc 60

```


841

```

tggaaggagg ccatagtcgt gtgaggatgg caaagtcgaa caggaagctt tgagtgcctt 120
cctccacgat gtcaacgagg agatccagtg ccagatcgag gtggatggaa caccagggg 180
taggggtgca ggtgtgggca gtgatgtccc ttcccctccc tcccctggtc ccacagactg 240
tggccatgag gntgcaggct ggtgctatga cagcagattg cagcacaggg cctccccctc 300
cagccccccag tgggacatca aaaccaccct ggggccattt gtgcagggca ccacctccag 360
tattgatggg gaaaataaac tcagtagagc cagcagaggg tggagagaag cagggaccat 420
tgtcttcttc aggagcgtga cagctgaccc cacagaccat gcttgctggt acacactggt 480
cccagaccca gcctgtcgga catcagcagt gtgctaaaaa cgtgtaagat gtcatastta 540
ccgtgtgtct atctagttga catgggtgga ntcagtaagg gg 582

```

<210> 1349

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<400> 1349

```

ggatacgaat tccctgattt tctaattgct ccagcaacac ctgttggtta tttccacgaa 60
atgcctgtcc ctgccagtca atatctacat ttgcgtccgg ttgttgctg atgttgggcg 120
tatcatcagc ggcagctgcg ccgtaaaattt ttgccggacc gttgccagaa tttccacctc 180
atgcccaacg cgaatcacgc cgctattacg ggcaattaaa ttctgaccaa aatcgacatc 240
gccgttatcc tgggcaatgc ggaaaagatn gcatgtttt 279

```

<210> 1350

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<400> 1350

```

cagngagctg aattctgaag cctgagctac tgagaatgct gataaaagat gttataagga 60
ctgtgttgga acctgctgtg accaccccgcc ttcataatgt tataacatag caattcagaa 120
tagtaacgta tgcccctcat gaaaagccaa gcagtgcaaa aatccactcc aaaaagccag 180

```

842

```

actccctccc agcactgagc cccagcttct gtgttcccct ctccaaaggc agtgggttggt 240
attagttact tgcataatcct gttggatatg tgttttctat cagggataaa ctatacagat 300
atgcayttac aaacatatca tattatttat ccttgacaga aaacacaagt gaagtttagc 360
cgacgatata cattgtccta caccttgat tttagatcta acattgcctt ctagagggtca 420
acagtacaca tgaaartgcc tacgtctttt cattagctgg acagcatgct gttacatgta 480
tangttaata tccgaacctc agtctaacca tacctactgg gncttta 527

```

<210> 1351

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (247)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<400> 1351

```

aaaactggag ctccaccgcg gtggcggccg ctctagaact agtggatccc ccgggctgca 60
ggaattcggc acgagtaaga agagctgggt gtgagaaatt agagataata cggaatctta 120
ttaatttggg gtcacgatat atagtaattt ttcactaatt tctgaccaa ggaaaataag 180
caattagtag taactaccat gctgtgtttg gctctagagg gcattttaat ataaaaattg 240
ggtaatntta tgtatgttgt acaaataagt ttcattttac aaatgagttt tgccaaatat 300
tttacacact tctagtatcc ataccaaatc tttttaatga gctctaaatt ataaaagtac 360
aaaaagccac tgggaattgag aggatgtttg caaagaagga aatcctgtgg tataaatgac 420
ccaaatttat agtattttca ccatactgta actagattga aggatttttc tattgcatat 480
tgtaatttgg ggaaaacctg tttattttct ctgtcagact tctcttaatc ggaaatattt 540
atagtaaaat gtacacaaaa agtacttttt acattatagg tcatttttaa gttaacagta 600
ttgaaatatt taanatatag gcgaggcatt cactga 636

```

<210> 1352

<211> 554

<212> DNA

<213> Homo sapiens

<400> 1352

```

ccatagtaac tttatttttt ataatagaat tttctatttt tgaccaaaaca taaaatattt 60
ggatatgggc caggcatgat ggctcatgcc tgtattccca gcactttgga aggccaaagc 120
aggagactcg gttgaggcca gtagtttgag accagcctgg acaacatagt aagattcatc 180
tctacaaaaa aaaaaattag ccggatgtga tggcacatgc ctgtaatccc agcactttgg 240
gagtctgagg caggaggatc ccttgagtc aggagtttga ggcttccatg agctrtaatc 300
acaccactgc acccagcct gcrtgacaga gtgaaaccct gtctctaaaa agtctgaata 360
tgaaaattat attggcagca tactcagaca taaactccaa agttgtctct acactgattt 420
cacatctgca taattttctg cataccagc aggtgaattt tcagtttttc tgggagacaa 480
ttttgaagag atggtgaaat agaatgggaa gttaaggagg ggaggtaaaa tgtttttaaa 540
gagaagaaca aaaa 554

```

843

<210> 1353
 <211> 683
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (672)
 <223> n equals a,t,g, or c

<400> 1353
 atagccaatt ctaaggggatg tacttctgtt attatcaaca aaaaccttgc caacagctgc 60
 ggcactggct actctcacct tatatgttta gttcccaaga tagcttgccc ttttccgaac 120
 agcagtcagc tcgactgtgc cactaaaaca gacaaatatt tgctcgggaa tcacaaccac 180
 ggggacttgc tccccagtt aggaccatgg tacatatttg tgtgtatatt atgggtgttac 240
 atgcagatta atactttcaa ttaatcctcc tagttgcctg taacgttaac atttcaagat 300
 gcatttagat atttttatcc tgtaggagga ttttgtttat ttgagggaaa aaaaggggctt 360
 ttaatgtatt ctctcaaaa accatttaga gaaaacagat aagtaaaaat aarattttaa 420
 ttaccatatt tctatttaca gggatgagca cattaacatt ttatgtattt agtgatcctt 480
 tttcctcatg tgtacacata tgtttttgtg tgtagtctt gcttgccctc cccatagtct 540
 gaaatagktc tatgragttt atattawttt taaacytgat catatmcaa ttttcagggg 600
 aacaaaccac tctagctatt tggaggaggg aatgcaggtt tatattgggg gagttttgga 660
 aactaccatg gnttccttac caa 683

<210> 1354
 <211> 434
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (399)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (424)
 <223> n equals a,t,g, or c

<400> 1354
 ttgttgattt ttgactttgc ttgtagctgc tccccgaact cgccgtctts ctgtergcgg 60
 ccggcactgt agattaacag gaaacttcca agatggaaac tttgtctttc cccagatata 120
 atgtagctga gatttgtgatt catattcgca ataagatctt aacaggagct gatggtaaaa 180
 acctcaccaa gaatgatctt tatccaaatc caaagcctga agtcttgcac atgatctaca 240
 tgagagcctt acaaatagta tatggaattc gactggaaca tttttacatg atgccagtga 300
 actctgaagt catgtatcca catttaatgg gaaggsttct taccattcag gcaatttagt 360
 tacttcatct gtggagtaaa ggagtggatt ttattgtcnt tcgtcttaca ttcgtattta 420
 tatnacataa gttt 434

<210> 1355

844

<211> 433
 <212> DNA
 <213> Homo sapiens

<400> 1355
 gcgatagtgg gagtgttaaa gaagacagac taacagacac ctgttacttt ggtgtctgca 60
 ttttagtagc tttcttttaa gcagttgtaa actgtgctag ggcattgtgt ttatctttgt 120
 cttgcacctc atctcttctt tgaccacctt gttatatgta tgaccacctt taagaatttt 180
 aatttttgtgt gctgctcccg tcaactgtgt gaacacccac atggagtcag gcacccaccc 240
 accctggcac ctgctagcac cctgctgcac ctaacaagtg tataccctgc tgcattgtgt 300
 ctgcttctgg tatgtgtgaa tgargacaat cttgttgtgt tcacttataa atgctttatc 360
 tggcaccacc catcggtgtw tartgamtgg tggkctgara rtaccttagc cccaaccccc 420
 sccccaccca gtg 433

<210> 1356
 <211> 632
 <212> DNA
 <213> Homo sapiens

<400> 1356
 tttttttttt tttttttttt ttggataggg tcttctcgtc ttgctgtttt tcttttttat 60
 atwttaacat twctttgttt gtawatcmag ttgtwcwtaa aatatcttcc araaacattt 120
 cttttacttc aaatggtcwt ccctgtatat atatcamtgg acaacttcca aaatatctta 180
 taaagagatt tacatcmaag gcagcactag aaagaattag tttcaaagtt ggggtgctttt 240
 gcaacaaatc tettaacttt gtaagtaaaa aatcactaaa tcgatccctt tcatgcactt 300
 catccacgat aacatgtgtc acagtcgaca acgtactatc tcttgccatc aatgtacgaa 360
 gcaatacccc attagtacaa aatgtcagaa gtgtytttgg agaaacctg ctttctaata 420
 ggatctgata accaattgtt tgaccaatcc tttcccgctc ctctgcgga actctttcag 480
 ccacagcgat agctgccaat cgtcttgggt gagtataaaa tatacggcag gggataccat 540
 ttttaaagca atcatctaaa aggaactgag gaatctgtgt ggtctttcca gaccagttt 600
 ctctacaat caaaactact ttattttctt ta 632

<210> 1357
 <211> 968
 <212> DNA
 <213> Homo sapiens

<400> 1357
 ccctggcccc ccccccccca gtacagggaa cgtgctttac catcgtttcc ggcgctggac 60
 ggccgctcact gtttcaggac cccgcaattt ggggtagtgt tgttgcgcat gctgtcctcc 120
 ccaaagcagg aatgaacacc cccttaacgg cgggcaaaaa accgagggga acccgactg 180
 gccaagaatc ctgagkagtc cgctacattg ccaamgyktc cgctgccaka cgaaagcgag 240
 scgtctgcag cgagtggaaag ttccgcccct gtgtgggtgga ccgcctgtgc ctcatggcct 300
 tctcggtctt caccatcatc tgcaccatcg gcactctgat gtccgctccc aacttcgtgg 360
 aggccgtgtc caaagacttt gcgtaaccac gcctgggtct gtacatgtgr aaaactcaca 420
 gatgggcaag gcctttggct tggcgagatt tgggggtgct aatccaggac agcattacac 480
 gccacaactc cagtgttccc ttctggctgt cagtcgtgtt gcttacggtt tctttgttac 540
 tttaggtagt agaatctcag cactttgttt catattctca gatgggctga tagatatcct 600
 tggcacatcc gtaccatcgg tcagcagggc cactgagtag tcattttgcc cattagccca 660
 ctgcctggaa agccttcgga gagctcccca tggctcctca ccaccgagac agttgggttt 720
 gcatgtctgc atgaaggtct acctgaaaat tcaacatttg ctttttgctt gtgtacaaac 780

845

```

ccagattgaa gctaaaataa accagactca ctaaatecct tccaataatt gactggtgga 840
aggaaaaacaa aaaacaaaaa ctaaaaacct cttagctttt ctgcaattca actttttatt 900
tttattttta tttctatcaa agacggtaga gagaaacagc ttgatgctgt ttctacatta 960
aaaaaaaaa                                     968

```

<210> 1358

<211> 718

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (678)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<400> 1358

```

cacaaaaaaa agtacattgc tgattccatt tcagcatcac tcaattacca ttctctaact 60
gtctctgatt tgtctttacc aaaagccaca tctggcataa ttggcaaaag actttttttt 120
tttccccacc attccaatga acacaaaaat gacattctca acatcaaadc aaatgatcac 180
attttttatt atatttttact ccaactgaaa tgaaggatat aactaatttg tccatttttc 240
tttaagcaca tatctgtatt catttttgata acccagcact cttgattgtt cccttactga 300
atgtttgtct cttagtatcc ttgtcccatt ctactccttt aaaaaaactg ttgcagtaac 360
caaagagtta tttttgattc cacgtctttg tcaaactaaa gtcagctctt tgaggcttct 420
ggattttgat attaaatatg tgtttagcag ttcaaatttt atatatgtat attctagctc 480
agatccagaa atctattttc ttcttatcat tctcacttgg attcctcaag caatttaaca 540
tgctctaaat attttctcca tgtttattta ggtttcaact ctacatacag aatagactaa 600
tttaataatt ttataacaatc cttggccttt acttttatatg atcttctaca tccaatagaa 660
ggttggtcaa gtaaacnta aaaacctatc gnacactttt taatctctga attttcat 718

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<210> 1359

<211> 1628

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

846

<222> (1600)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1625)

<223> n equals a,t,g, or c

<400> 1359

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ccnggaatnc cgggtcgacc cacgcgtccg gcgcgctgcc agcagccagg agccaggagc 60
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gatgtaggag gagctcaagt gctggcaaca ggcaagaccc ctggggctga aattgatttc 180
aagtacgccc tcatcgggac tgctgtgggt gtcgccatat ctgctggctt cctggccctg 240
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caaggctggt aatgaacttt cacatggact gaatattgga ggcaaataat agaaggaata 540
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tgnncgcn 1628

```

<210> 1360

<211> 1297

<212> DNA

847

<213> Homo sapiens

<220>

<221> misc feature

<222> (1280)

<223> n equals a,t,g, or c

<400> 1360

```

gccacgcgt ccgcactccg ctcggtcac catgtgtcac tctcgcagct gccacccgac 60
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ctccggtcct gagatcttca ccttcgaccc tctcccggag cccgcagcgg cccctgccgg 180
gcgccccagc gcctctcgcg ggcaccgaaa gcgcagccgc agggttctct accctcgagt 240
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gtcaccatc gtcttctgcc agatcctgat ggctgaagag ggtgtgccgg cgcccccgcc 360
tccagaggac gcccctaacg ccgcatacct ggcgcccacc cctgtgtccc ccgtcctcga 420
gccctttaat ctgacttcgg agccctcgga ctacgctctg gacctcagca ctttcctcca 480
gcaacacccg gccgccttct aactgtgact ccccgccactc cccaaaaaga atccgaaaaa 540
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aaacycgggg ggggcccggg acccaaattc ccccaaa 1297

```

<210> 1361

<211> 2704

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1438)

<223> n equals a,t,g, or c

<400> 1361

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gggccatcct ggcgggtcaaa tccacgcggc agaagcagca gcacctggtc cagcagcagc 60
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cgcaacccca gcccgaatca caaccccagc ctccagccca acccaagcct cagccccagc 180
agctccaccc gtatccgcat ccacatccac atccacactc tcacctcac tcgcacccac 240
accctcaccg gcaccgcgat ccgcaccaa taccgcaccc acaccacag ccgcactcgc 300
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cgggcaagac aagggttttg ggacttgagg aagtgggacg agcacatttc tattgtcttc 420
acttgatca aaagcaaaac agtctctccg ccccgcacca gatcaagtag ttggacatc 480
accctactga aaacttgcca ttcttcttag ttttctgcat acttttcac acgatgcagg 540

```

848

```

aaacgatttc gagtcaagaa gactttttatt tatgaacctt tgaaaggatc gtcttgtagt 600
gtgaattttc taggagcgat gatgtactgt aatttttatt taatgtattt tgatttatga 660
ttatttatta gtttttttta aatgcttggt ctaagacatt tctgaatgta gaccattttc 720
caaaaaggaa actttatttt caaaaaccta atccgtagta attcctaate ttggagaata 780
aaaaagggcg gtggaggggga aaacattaag aattttattca ttatttctcg agtactttca 840
gaaagtctga cacttttcatt gttgtgccag ctgggttgaaa ttaaaactct gatattactt 900
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atgtagggtt taaaaaaggc atttgtatgt tgttagctta catatggggc taggtaattt 2580
cattgcttaa aaagatgcgc ctaggctccc tcttggtggc tggatttctt tttcttcsy 2640
cgtggtggcc atggttctta atagggccac cggaatcakg gtttctttct tttttttttt 2700
tttt 2704

```

<210> 1362

<211> 910

<212> DNA

<213> Homo sapiens

<400> 1362

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ttgccattga cctcagaaat cctgtatttg accttaacct tcttataccc agtccatacc 180
caaagtgatg gaaatggaat agatttcttt ttaaagtttt aaacgaatat tttgactgaa 240
aaattttggc agtcttgtat gcaaatgaca ctgcagagca ttgttttctc cccccacgg 300
taggarattt tattcaacta aggcacaggc atattaaaag actttcagta taaggaaaag 360
gggtaagttt awtccctcca aatttgacta cagctcgaaa ttgtctttat taatgcaaag 420

```


849

```

ttcttttgtc accttgactt tgggacactg ttaccaaacc tcgtgggaaa tatcaagtgc 480
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ccatatgaaa atgaccagga agacaattag gtgaagggtt tttaatgatt tgtgctacgt 600
cagtctcttc ccataagaca tattcaaagt ttttaactttt ccttaagagg cttccatggg 660
gagcaagcat ttgataattc atcctttaag aaaaacacca ccgtacactg cttgaagagt 720
tcctcttcta ttacttaaaa cgttttttatt gtgcaacatt taaggcatac aaaaacatat 780
aaagaatacc atgatgaaaa tctatgactg tattaccaag ctttaagaaat aaaacagttg 840
agtgatctct catttatgac taaattaact tattaanaacc attaaaactt ttggattatt 900
cctgttaaaaa 910

```

<210> 1363

<211> 1823

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1729)

<223> n equals a,t,g, or c

<400> 1363

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tcttcccccc acgactcctc tgctctctcc caaactcctt cccaccacct gcagctcttt 180
gaccaggaca gctccaatgt gttgtcaagt gagtgtcccc agcaggaggc ntggcgggtg 240
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ttcctccagg atccctactc caccaccttc agcagcttct cccgagtgac caacttcttc 360
cggggtgccc tgcagccaca gcctgaggga gccgcctccg accttcccccc gccacccgac 420
gatgagcccc agcctggatt cgaggtcatt tcctgtgtgg agctggggcc tcggcaaccg 480
tggaagcggg cctccagtta cagaggagga gtgggcaacg cacgtggggc ctgaaggtcg 540
cctgcagcag gtccttgagc tgaagaaccg gatcttctcg gggggtctga gccccagcct 600

```

850

```

gcggcgcgna ggccctggaag ttccctcctag ggtacctcag ctgggaaggc acagctgagg 660
agcacaaggc ccacatacgc aagaaaacgg atgagtattt ccgcatgaag ctgcagtgga 720
aatctgtgag ccctgagcag gagcggagaa actcacttct gcatggatac cgcagcctca 780
tcgaaagggg tgtgagccgc actgacagga ccaacaagtt ctacgagggg cccgagaacc 840
cggggctggg cctgctgaac gatatectcc tcacctactg catgtatcac ttcgacctcg 900
gctacgtcca gggcatgagt gatcttctct ccccgatcct ctacgtcatt cagaacgagg 960
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gccgccctgc tgataagctg gcttcattaa actgacactt ctcawtgna aaaaaaaaaa 1740
aaaaaaaaagg gcggccgctc tagaggatcc aagcttacgt acgcgtgcag ggacgtcata 1800
gatcttgtat ggggtattgg aaa 1823

```

<210> 1364

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 1364

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aattccccgg caacaatttg aaaaactact cgaagttctg cgtttcagcc ctgaacctga 60
aacataaaat gaatgcaatt gttgttggtta acttgtttat tgcagcttat aatggttaca 120
aataaagcaa tagcatcaca aatttcacaa ataaagcatt tttttcactg cattctagtt 180

```

851

```

gtggtttgtc caaactcatc aatgtatctt atcatgtctg gatcgatcct gcattaatga 240
atcggccaac ccccggggag aggcggtttg cgtattggct ggcgtaatag cgaagaggcc 300
cgcaccgatc gcccttccca acagttagcg anctggaatg gcgaatggga cgcgcctgt 360
agcggcgcat taaagcgcgg cgggtgtggt nggttacgcg cgggaaccgg taacantggc 420
cagggccnaa ggccccgg                                     437

```

<210> 1365

<211> 523

<212> DNA

<213> Homo sapiens

<400> 1365

```

gggattacag gcgtgagcca ccacgcttgg cctgcccttc taatttttag aagtttgtgt 60
ttctacctct gaagtgttca tgggagagtg aaggtagaga gtggtccaga gcagggtggc 120
cccagcacac cctgtgtgtc aactgattcy gagaatcatc aaatagacaa gaatttaagt 180
cttccgtttc tgtggtcatg attaaggtgc attytttaaa gacttaaaaa cttactggct 240
ttaggaagga gagttcttat aacctccag caciaagtga catactttca ttctctgcta 300
cttctgtgta gtgttgcttc actgttaatg tttgtggctc ttcaagagcc agtctttagt 360
taatcatatt accataaggc cgtggttctc aatcggaggt gatttcccca gggggacatt 420
tgggcatgtc ctggaggcat tttggtgtgc acattggcas cccggtgtaa wactacctcy 480
gacaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggcgctt ttg                                     523

```

<210> 1366

<211> 2155

<212> DNA

<213> Homo sapiens

<400> 1366

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tgatttggtc ttccactcag agttgagtgg tttatcacag agtgtgttat ggcttagacc 60
aatacaggtc ccttcttaat agtggtagct cctttttatc ctgaggatta agccattaca 120
aactcaaatg accagagaat gtaatttctt aataagaatt tttccttaaa tctatattca 180
gctctctatt tcagtgtctc tctcctacca gaggtgcaag gagtgatcct agaaccacag 240
atacagccaa gaccacggag agcttttgac gtcaggggtc cactttctcc actgaaccct 300
tggagacaga atatccagct tctggagaga gtgggaaagg ataataaaca aattttctttc 360
aactggtaaa acatcatact tcttcagcaa aaggaattct tctagcagag ctttcatgga 420
tgatatctgt cacacatgcc wkcacctgca gtttggaagg cagtggtgaa tggatccatg 480
caatatgtct agaagacaca aggatgagcc agccacctga tcttgtcatt tataaacttt 540
taagaattac tctggtttac ttttgggtctg aaaatggaaa ggcccaaata atgaaataat 600
cttttcagat tggaaattta catggccatg aaaatatctt tttctattca gaagactgaa 660
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aaaacatttg tgggrttgaa aatcacctta atgaagtagg caaacatttt ttttaagtagt 780
agaggaagtc cagaaaactt aatgaaatgg ttttttttgt tgccctgacac tgaaagtaac 840
tagtaataaa aggggtgaact tcttaattat tcgaaaactg cttttaatat taggatatac 900
tcttttagct catcttcgct ggtcttgagg cttattataa ttgtcaaata aacaaaagkt 960
ctaatagaga agtagaagaa atatcttttg agatgtaagk agcttggkct gkcttctaaa 1020
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gctattaaag aatgttttta aagtcaccta atgctgccag tttgttaaat ttggtataca 1320
ttttaagaat agacattcta gagttattaa tatggaagca gctaaaatgt tttaggaaat 1380

```

852

```

ctcaaaagtt ttagaagcca catttgctaa agcataacct gcacttagtc tttcttggt 1440
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attaatataa actatttttt tctagaatga ctaattgtgt aatatctgta ttatgtgata 2100
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```

<210> 1367

<211> 1724

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1701)

<223> n equals a,t,g, or c

<400> 1367

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gctccgctct ccccgctcca agcgccgctc tgggcacccg ccaccagcat ggacgctcgc 120
cgcgtgccgc agaaagatct cagagtaaag aagaacttaa agaaattcag atatgtgaag 180
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aatTTtgcaa acacgaggct gcagtcagtt cggaaggct gtaggacccg cagccaagtgc 300
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accaacaaaa aagcagagtc ccgccagccc tcagagaatt ctgtgactga ttccaaactcc 420
gattcagaag atgaaagtgg aatgaatttt ttggagaaaa gggcttttaa tataaagcaa 480
aacaagcaa tgcttgcaaa actcatgtct gaattagaaa gcttccctgg ctcgttccgt 540
ggaagacatc ccctcccagg ctccgactca caatcaagga gaccgcgaag gcgtacattc 600
ccgggtgttg cttccaggag aaaccctgaa cggagagctc gtcctcttac caggtcaagg 660
tcccgatcc tcgggtccct tgacgtctca cccatggagg aggaggagga agaggataag 720
tacatgttgg tgagaaagag gaagaccgtg gatggctaca tgaatgaaga tgacctgcc 780
agaagccgtc gctccagatc atccgtgacc ctccgcata taattcgccc agtggaagaa 840
attacagagg aggagtggga gaacgtctgc agcaattctc gagagaagat atataaccgt 900
tcaactgggct ctacttgtca tcaatgccgt cagaagacta ttgataccaa aacaaactgc 960

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853

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agaaacccag actgctgggg cgttcgaggc cagttctgtg gcccctgcct tcgaaaccgt 1020
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ggaatctgca actgcagttt ctgccggcag cgagatggac ggtgtgcgac tggggtcctt 1140
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caggaatttg aaatgcaagc ataatatctg gaaaatttgc tgccctgcctt ctactttctca 1260
aatctttctt gtaaaagttt ccaatttttt cactgaaacc tgagttaaaa atcttgatga 1320
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catcacagaa ggtatatgtc tagttacact ttgccctcct gcagtttctt ctctgctccc 1440
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tgaatttctt ttaaattaca gttttatgaa agcatatttt atttacttgg tgttgaaata 1560
gccctyataa aacctaagca cttggaaaacn caataatagt attaactaac tagatctatt 1620
gaatttcaga gaagagccta aatagcaaan ttacacaaa aacgagtatg atttagcact 1680
catactagtt gagggtttgg ngccgatagc gactgcta at gaac 1724

```

<210> 1368

<211> 373

<212> DNA

<213> Homo sapiens

<400> 1368

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cccctacttt aaggagttct agatatgtga gatactacct taccctttca gacagttcca 60
tgtgagtatg ttaaccatac ttcttagtca aaaataaaga gaagcctccg ggtctttgtg 120
ggaacaaagt tacaaattaa ttgaaatcca tactcttctt aagcagcttg gacctactac 180
tgtcccatat gtaagtatgc aaaactacat ttgccaaga attaactcat gagaaccatt 240
gaacttgatg tgaaagtcac cttaacagtg gtattgtgct ctgtaaaact ggaatctttt 300
cccacaagat gcatgtaaat aagagatctc aaaaatagaa agactctctt tctcaaagaa 360
tacaaacagg tgt 373

```

<210> 1369

<211> 821

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

854

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (725)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (775)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (797)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<400> 1369

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naagatgtnn ttaaccctca ctaaaggga caaaagctgg agctccaccg cgggtgncggc 60
cgctctagaa ctagtggatc ccccgggctg caggaattcg gcaccacttt gtatgtatag 120
tagccttttg ccctcatcac aacttagtgt gaggtatgtg ttcctgtcct aattctacag 180
agaaggaaat tggaattcag tgagttcatg ttcttacagc tagtgactgg tcgatccasa 240
attagagcac mggtccgtct gactccaaaa cctatatgtg cttttcacta taccacaata 300
acaacgaata tttgttctgt acaattcaca actctttggt ctaccttatt attattatta 360
ttattactac cactacttac atcttacta gtcagtargt acagccwaga ttatcacgac 420
ccccatttca ctggtaggga aactgagact cggaagcttg cccaagatca cacagctggt 480
aagtggagga gaaccaggac ttcagacaga cttcctgact ccagatcttt tttttctttc 540
catgacatca cattgctgcc ttaattcatt tgcacaatgc atgattgtat ggccagtgtt 600
cactgacacc tttcctacag aagtatcaat gagcccaggc attacgtaga gccatgtgga 660
gaagaaaata attcatacct ttcagaggag cttccatttt agtggggggt gatacaaagc 720
accngaaag taaatgcctt gagaatagtt cacaagttaa gaatttaaaa tatanggccg 780
ttgtttccat aatgaanncc cataaatttg ggccataaaa c 821

```

<210> 1370

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (414)

855

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<400> 1370

```

caataatgta aaatatgaag tgtatgtgta cacacatttt atttttcggg atcttgggta 60
tacgtatggg tgaaaaactat actggagtct aaaagtattc taatttataa gaagacattt 120
tggtgatgtt tgaaaaatag aaatgtgcta gttttgtttt tatatcatgt cctttgtacg 180
ttgtaatatg agctggcttg gttcagtaaa tgccatcacc atttccattg agaatttaaa 240
actcaccagt gtttaatatg caggcttcca aaggcttatg aaaaaaatca agacccttaa 300
atctagttaa tttgctgcta acatgaaact ctttggttct tttatttttg ccagataatt 360
agacacacat ctaaagctta gtcttaaatg gcttaagtgn aactattccc taantgctgg 420
ntg 423

```

<210> 1371

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (651)

<223> n equals a,t,g, or c

<400> 1371

```

cgggtcgacc cagcgcgtccg agcaacagcc gtagcaaaag cagctgctgc tcctgctatg 60
aggggtgtata tatttttttac ccaaagctct ggaattgtac atttattttt taaaactcaa 120
agaggggaaag agccttgtat catatgtgaa cattgtatca taggtaatgt tgtacagacc 180
cttttataca gtgatctgtc ttgttcctgc agcaaaaatc ctctatggac ataggagggtg 240
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cctccctgct actgctgatg cactctcttc tccctgcagc ccctggettc ccagccttcc 360
tcctgacccc ttccaacagc cttggaactc cagctgccac caccctctgg gtcggacact 420
gggacccact ggcccagctc tggctgctgc ttacccctag ccttgatgcc tgcccaggga 480

```

856

```

ccccagccc cctcccgttg ccctgcagct ttaacagagt gaaccatgtg tattgtacag 540
gcgcggttgt cattgcagaa accgctgggt ggagaagaag ccgataaagt ctatgaatca 600
aaaaaaaaaa aaaaaaactc gagggggggc ccggnaccna attcgccna nag 653

```

<210> 1372

<211> 907

<212> DNA

<213> Homo sapiens

<400> 1372

```

atTTTTtact gctaccacaa tactgctgct gttgctgctg ctacattaat ttatgttgct 60
atgtcattcc agtgaaaaat ctcaactttc aattatagtg cagatacact atgtaaaatc 120
acatgttttag gttccaagta atatatggcc taaagaaatc caaaaaatgg taataatccc 180
agtcatggat gccatacact tctaacctgc agcatcccca ctcaagaact gcctgcctat 240
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tacctatggc cccctgccat cctctacaga gctattgttt tatacatctt acacattaga 360
aaacttagac tcaaagttaa tctcatttgc ctgtgtcaga gccaggattg aaacaccagt 420
ctgtatgact ctataaatca cacccttaac tcagtgagct ccgaaggctt ttgagtgtga 480
atgctgccac atatcctgtt ttctaaaaca ggcttattct gactttcaca gatcacagtg 540
ttctcccagt gtgtgaaagc aagacctgaa ataaactttt atgctgtatg tgctaacatg 600
cttagggctc tatTTTtata aaacattaac aattttaaag atgatatcta ataaacagrc 660
cttggtataat tatctTTTTa agattgcca atgttttcta atatcttact cattgtacta 720
aaccctaggc ttctgttcat tttaatttta ccataaagggt aaaaacatat atataagtca 780
ataggtaact catttctttc attaaataat caattaaata cgtcattctat gatgtacaag 840
gcattgtata gaacactata ttgccaatca aagtgctagt aaaaataaaa gttttaaagt 900
tgaaggc 907

```

<210> 1373

<211> 3036

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 1373

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ctcctttgtt agttcttcaa ggagtgcac acgcggccat ctgggcagca tgcatttctt 120
acctcagtgc agccgttccc cctgagctga ggacatctgc tcagggcatc ctgcagggcc 180

```


857

```

ttcacctggg tttgggaaga ggatgtggtg ccatgatcgg aggcgtgtta gtcaattatt 240
ttggggctgc tgcaaccttc cgaggaattg gcatggcctg cttggtgatc ctactgctct 300
ttgccctgat ccagtggtctg gcagtgccag atgaggaaga agacaagaca atgttggcag 360
aaagaattcc tgttccctcc agtcccgttc ctatagcaac catcgacttg gtacagcaac 420
agacagaaga tgtcatgcca cgcattgagc ccagacttcc acccaagaaa actaagcacc 480
aggaagaaca ggaagatgtg aacaaaccag cctggggagt cagctcttct ccctgggtga 540
cctttgncta tgcactctac caaattaaag agatgatgca actcacaaga gacaaccgtg 600
cttctgagat acagccttta caggggacca atgagaatag ggaaaattct cctgctggta 660
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gtaacccttc ttgagatccc tcaacacaca caggggtgtc acagagccca ggctggtaat 3000
cactgcctta atgacttact tctactctt tctccc 3036

```

<210> 1374

<211> 2652

858

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (708)

<223> n equals a,t,g, or c

<400> 1374

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caactatatt tgctcataga atacttagtt tattaaccag ttgctctctt gataactaca 180
gatgttggtt aattgtatca gataaacttg atagtcaagc agaagttttt atataaagat 240
atgagcacac atttaaatac acgttatatt aatataaagt gagtatgtta tcatataatt 300
tgtaaacatg ttctaataatc ttaatcatta aagtgttcat gattttaatt tagactatag 360
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cagcatctga aggagaaatt taataaatac tgccggttaa atgatcacia gaggccatt 2160
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859

```

aatgaaacac tcacgatgac tactgcgcc tctctttcga aaaactctta atttagtgac 2280
ttatggcaaa attttatctt aaatcaatgt gattctttct tgttttggga gacggtggag 2340
gtatcctcat tagttcttct ttcaggcttg tgtcttttagt tgcgtggctg cgcaggcctg 2400
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gcaacttagt ggcaaaaagt aatgtttgtac ttataattct gtacagaaat gacaatgagc 2520
tgaatatatg gttttacaaa gtagacatcc acttgcaaaa tgtttgatg taatgtttaa 2580
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aaaaaaaaaa aa 2652

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<210> 1375

<211> 327

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<400> 1375

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ttttactatt tcatggctaa aatatttata cacaaaggca gaacttgccg agtagtagct 180
gatcactttg tctttaaaaat ccagggttta gtttattact ggatgtggtt tgtgctctac 240
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caggtggant tcnagaagcc ctaatta 327

```

<210> 1376

<211> 1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

860

<220>
 <221> misc feature
 <222> (631)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (641)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (673)
 <223> n equals a,t,g, or c

<400> 1376
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 agggagccct gggaaagggc tgctctcact cttcactcct ttctnctccc tcagatccac 180
 ctgttccctca ggtgcctgct cttccccgtn agggaaagccc aggagaccag gcagctgcmc 240
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 ctctttttcc acgattgtga gatattaaaa ttgactgatg gaatagaagc tccccaggat 1020
 gccaccactg tgtaaaatcg cagctcctca aattacctct gtttaatttc aaatgttagg 1080
 gtccaaggaa gccctctgtt gcaaccagat atgttttgaa cccagttcat tcagaaacca 1140
 tgggttggtg tcatcatcta cttgtattgt gaaaaaccag aaattccaaa ttcagctctt 1200
 caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1253

<210> 1377
 <211> 671
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (287)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

861

<222> (645)

<223> n equals a,t,g, or c

<400> 1377

```

cccacgcgtc cgagaaaggg agaagagtct tgtgggggct gggtaaggga ctcctaaaac 60
aagagtgggc agggacttca cctcttcccg taatggaagc tctgttaa at ttttaattta 120
ggagagtttt tgtgaaaatg actattttgt ttagctcaca tgataacatt tctataataa 180
atcatactca gcggtgttat gcgcgaagag actgaactga agacgctgca gactcagata 240
gcaaaaataat aagcctactt catgataagg taactattag tcattcnaac tcctatttcc 300
cttaaatata tcttaaatca gttaagggtt ttaatgtttt ttttaaatta atagtaatgt 360
tatgtttgaa aaactgggtt gaaataaaact ttaaaacctt tagaagttaa accacttaag 420
acttttccag tctgcctcgt tatagcaaaa ccaaggaaaa tttcttttct aagctcctat 480
agagaactgg caatgaaact aaaattta at tgtgtctcca ggtctcttat ttttctgcaa 540
ataataaatt atgtactatg atcattttca gataaatcat catgcatgtt ccaaaatgat 600
tggccaaggt ttatttttaa gaaacattaa tcgtgagtgg maganacatg ctatgggcct 660
tttgggagac a 671

```

<210> 1378

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 1378

```

gttgacattt tcttcacttg aacaaagatg gcagaatccc atttcacatg ttggcaggca 60
tgctatttaa gtgtgtcggg gcctctccac agtaggatcc tgctgtgagc cttcccttct 120
catgaggtcc ttcctgggct cccagataaa tgatcatgata aatttggagt tgtagctaaa 180
gggcagccta atagatttct aatatataat aaatagtagc actaggtcaa aatactgctt 240
aggaatcact ttataactcca ggtggcttcc tccattgtcc cctcgccgcc tctgcatttt 300
gatctgaaag ctgcatttca agattacaaa tgagagaaac ctgattctct tctgtgacag 360
gagccaggta ctgcaatggg ttgcaatcca aaacctnata attgtcaagc ctcagttcaa 420
gagactttta ctgggatata ggctggatga ctgaaaccta acaggctgga aaggtaatag 480
ttttggggaa tgcncatgac a 501

```

<210> 1379

<211> 962

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (795)

862

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (892)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (922)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (939)

<223> n equals a,t,g, or c

<400> 1379

```

ggcacaggcg aagaaaggaa aaaagggaact tgtcttctag taattgggta tttgcagact 60
ctgtaagtat atgtactgaa cattaagggt ttatagccct ggggtttgtt cctaaatggg 120
ctacaaggag ttttacacaa aacttttgct taatgctttt ttttgtgtgg agaggacca 180
taatccttat aatactctca aagatggctc aggatccccc aaaatgctaa aaatcacggc 240
ctaaaaaatt cctgctacta catggaattt gcttcatgta gagctcgccc ttacctaagg 300
atacctctgc ctgctgtgta tcttagtgat ggcaagatca aggttatcaa caacaggcag 360
acaccccgca gtagtttctc tcttagagtt gaatgtctgg cttagtaaaa ttctgtccat 420
tgaaagcctt tctttaaaak gtttgctaca aatgaatgca cagcatgaga tattttaa 480
agtatcatat actttaggat caaacaagca aaaaatactc tgatatagta tgtgctacat 540
aagcgttttt gttacgtgct aggcctctca aaatggattt gtagaaaatg acacagaatc 600
acagttcatg ccctagttta cgggtgctctt tttgaccggt gttttggaag agtgatagtt 660
atcctactgt aaatagcttt cctattacaa atagtagtta acatgtcgtg tataaaattt 720
ctggttttcc acaaatatct atgaccacaa atcgagaaac gtaatgagtt gtgaccaata 780
gttaatatat tttcnaaatt taaatgtact accggccaca aataactgcg ttttgggatt 840
attaaactat ccacagtaat ttaaagtgga atcactctct tcatttatag cnaaattctc 900
tagggccaaa ggaacatggg antcaggnet ggaattacng gtccgattta cattattttc 960
cg 962

```

<210> 1380

<211> 2935

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

863

<220>
 <221> misc feature
 <222> (8)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<400> 1380
 ntacaggnac cggnccgga ttccccgggtc gacccacgcg tccggcgaga acccgcgccc 60
 gcgaacaaag agcgaaccaa agcgatgctt cgaattttta aaacggaatc tctgcaccca 120
 aatgcaggac tgggtgactta aggagctgcg aagtctgatt taccggccta ctctcgacct 180
 gccccccacc cccagctcag gggacctttt gtctgaacgc cagagctact gaccaggctc 240
 gggggccgcg gtgggggagt gaagagccgg tcctgctgtc cgccctccca gccccagggt 300
 gaaggctcag ttgtcggaaa gacaaaagcg atttcttccc actcctgcag ggccagaagt 360
 tcaggctgcc ccgcctccac tgggggatcg cacctgtgaa ttacctgagg tatgcatttc 420
 ccagaaccgt gggcgtaacc accttggggg gcatgttggt tctgggggga ccacctctcc 480
 ttgcattcag gggctgtgaa gctgagtaat tttcggtcac agggcaggcc cctgttgaaa 540
 tttcatttgt cctgctcttg gcccaaaggt ggtggtggtt tgggtcatca gaggactgcc 600
 tgggacgggt cagcggggcac ggagcgtgt gctggcctgg ctggggatgg ccgcgagggt 660
 gcccttttcc tgggtgctttg tgggtggctgc agaagaccag ttttgttgag aactgctttt 720
 cagcctggaa tcagacatct tccagatggt ttggaccctg tccatgtgta ggtcattatc 780
 acacaaagag accaataaaa ataaaaaaaa taaaaaaaaa aaagacgaac tattggagggt 840
 ggtggccaat gatgcattta ctgtttgcag gatagttaaa ggtgtttaaa gggttaagggt 900
 tttggtgtaa atgctggatg ggggtgtgtgt gtgtgtggat atagggacct ccctctgtac 960
 tgtgtaatcg gcattaatac ctagactcat atgtatggaa ttttaaattc tcttagccta 1020
 ctgattggtt tggatgagca caccagctgc aggtgtgtgc tgaattgcaa gatgggtatt 1080
 ttttttttaa ccaagggatg tctcttgtaa tactaaccgc gtgataatgg gttttcagac 1140
 atgatgaaaa aaaaaaactt ttacaaatga atacttacct tagaaatatt caccttagga 1200
 aaaaagactt tgctctgccc ttttatattc ctttatgctg caagtgggtga catgttcaga 1260
 tttctaattt ggttcattgt ggcctatctg gtttaagtct ttcattaaaa atgtctcgtt 1320
 agagtatttg atgtcatgca ccaaaaaaat aaaacccccc cttgttgcaa aagctgacct 1380
 cggtgcatgg aattaaaaa gaaggaaaaa cacaaggatg aagtctttcc gaattcattc 1440
 ttgtgggaac tggccttcgg agccagccag cactttgggc aaatgcaaac aacaatgagt 1500
 gcttgagata aaagaaaagt tgacgtcatg gtcactggta ctcaggcact tcacagtta 1560
 cttgaaagag gctttggaaa atagataaag tgaaagaaga ataaatacat atttttaata 1620
 atgtaatttt aaaaatcctt tataatcagg actgagtctt ggtttgcaga agctgtcact 1680
 taccctgaaa cacagtatca aaagggaac ttaaaacata ctgtttgatt tttttatttc 1740
 ctcttacaat ccatgttttc aggtagaatt atgactttcc cccattgtt acacatttct 1800
 ttacaaagga ggcctgtaga aattggacac gatcatgctt gagcatgtga gttagtcaaa 1860
 ttatgagtcc ctgcctattg tccattacac accgaatgtt aatttaagaa ccagaggcag 1920
 aagttctggc ttctgcttg aaaccaatt cttatatgaa attttttaaa agcagaaacc 1980
 tagcagccca tctgcttttt ctcttttgtc ggtgtatttg gtacccctcc aatgctgggtc 2040
 tttttgtaga aactcagtag agaaagtcta gctaagcagt gttgaaaagc ctgcaagatt 2100
 tcagtttaca tatcgacagc atatccactg atttctaaat gggctgggtcc catcatctga 2160
 agattctgta tagaattatt aaaaaaaaaa tccatctttc tttattttct tcacatgcga 2220
 caatttctta agcactttga cattttggta gttccacact attgagagaa taatatattt 2280
 attttgtgac attgcagatg ccaaatactg taacctctc rtgataacaa tacttaggtt 2340
 caagatcact gttcaaacc tgtcatgctt taaaactgat gcgagatgat tttgtttttt 2400

864

```
gcataaatcaa tacttaaggg tgcaatcaac tgtagtaaat tgtgcagtaa agtaaagccc 2460
tgtggtgtat caactactag ttaagagtct cagttgattt ctgtaatgtt tgacctaata 2520
atagcccggt tcgtctctga cccaacagag gaagcacaga tcaaatcacc ttggagtggg 2580
caccaggggg acagggagcc cccacccaat gtatcaatgg gtgatttatg atgccttctg 2640
ccctttggcg agtgaatggg tttcccatag gggaagtgg cctccctccg tgagctttgg 2700
aaatgttttc taatagacac agggaggcca gttctgtttc agagcaatta tcttccaaa 2760
ttctctgttc tgggtgttga actgtgtgcc ctggtttctg ttttccttc tactgctgta 2820
attctctgtc tcatcatcct tctcttttgt ttccatagcc ttttataatg catatatgat 2880
gctgtgaaca gaaataaatt atttatacaa tcaaaaaaaaa aaaaaaaaaa ctcga 2935
```

<210> 1381

<211> 626

<212> DNA

<213> Homo sapiens

<400> 1381

```
gtggacgcct gtaatcccag gtactcggga ggctgaggca ggagaatcgc ttgaacctgg 60
gaggcagagg ttgcagtgag ctgagatcat gccattgcac tccagccctg ggcgacagag 120
ggagactttg tctcaataag taaatacata aataaataga ttaattaaaa taaaaaggat 180
ctccagggct gcattgcttc tggaagctct agggcaagct tttccagcct gcggcatacg 240
gccaggactg ctttgaatgt ggcccgacac aaatttgtaa actcttaaaa cattatatat 300
ttttctttta gttcatctgc tgtcgttagt gttattgtat tttatgtgtg gccaagaca 360
gtcgtcttct tccagtgtgg ctccagggag caaaagatcg gaagccctg ctctagggga 420
gtgagttcat tttattgcca tttccagctt ccaaaggctc tctgcattcc ttagctcgtg 480
gccccatccg tctgtcttca aacctaccag tgtagcatct tccaagcagt cctcaccac 540
taccctgtcw ccccgccct ctcactcccc ttctgtggcc acgatgcctc agggaaagat 600
ggcatttttag gcagcaggta agaacg 626
```

<210> 1382

<211> 583

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<400> 1382

```
ctgttttaggt tatagtctat tgatactttt tatatacaat tttataaata taaatattat 60
aattttatat taatggtacc aaaaatacat ttcttaaggt taaaagcatg cacttccatg 120
catacttgct tttggggaga gtggggagaa gacattctaa taatcagttt gtgaaatagc 180
ttctgttggg aaccttttga ggggaataag gaatgggtcat ctaaaatgag agattctgga 240
ttttaatgca gttcaaagtt gagctgtatt ttgtgtgtg atttatctgg atttttttta 300
aagccttcta aaaccagtg aattcaatac cttaattagt acatactatc ttatgtaatg 360
cataaagcaa tgccagtcac tgagaacatt taaatatatt tatattcctg gagatacaca 420
```


865

```

ttctcatttt  tgttggttta  ttataaatta  ttcttctaga  tgcattcttt  ataactagga  480
tttcattttg  tgtgtatagc  ttatgtaata  aatttttaaag  gtgaaaactc  tcttaaaaaa  540
aaaaaaaaaa  aaaggggggg  ccgcccccaag  nggcccaagn  tta                                     583

```

<210> 1383

<211> 517

<212> DNA

<213> Homo sapiens

<400> 1383

```

acatatggaa  ctcatcattc  attttaaagt  atgggtggcca  ttggcggtga  caaaaggaaa  60
agaagcaaag  agactcagtc  cataatgctg  attagttaga  agaaagggtc  aggattgaga  120
aagtaccagg  aacttttaat  tatttaaaag  agaatgctga  ctgttaatgt  tttaaatctt  180
actgttcaaa  tgtastaata  tgaattttta  ccctttgtgc  atgaatatts  taaacwacta  240
gaagacctcc  acaatttagc  agttatgaaa  gttaaactkt  ttattataaa  aattctaaac  300
cttactgctc  ctttaccagg  aacatgacac  actatttagc  atcagttgca  tacctcgcca  360
atagtataat  tcaactgtct  tgcccgaaca  atcatctcca  tctggaagac  gtacgcttta  420
gaaacacatt  tttctattaa  ttctctctaga  acttcttttc  ggtataatct  gtaagaaatt  480
aaaaatatat  atcaacttct  ggataaataa  aaaaaaa                                     517

```

<210> 1384

<211> 1230

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1216)

<223> n equals a,t,g, or c

<400> 1384

```

gcggccgcgg  ctccccgagct  cctcgggctc  tgggtccccg  cgccccctcg  gccgcgagtc  60
ccacgcgcca  cccccgggcg  ccctcgacgg  tggatctagc  ggcgggcgagg  aggcgggtcc  120
cgcccccggc  gaacccccagt  cccggcccc  ggccccgggc  ccagcttcgg  catggatgtg  180
aggttctacc  ccgcggcggc  cggggaccct  gccagcctgg  acttcgcgca  gtgcctgggg  240
tactacggct  acagcaagtt  tggaaataat  aataactata  tgaatatggc  tgaggcgaac  300
aatgcgttct  tcgctgccag  tgagcagaca  ttccacacac  caagccttgg  ggacgaggaa  360
ttcgaaattc  caccaatcac  gcctcctcca  gagtcagacc  ctgccctagg  catgccggat  420
gtactgctac  cctttcaagc  cctcagcgat  ccattgcctt  cccagggaag  tgaattcaca  480
ccccagtttc  cccctcaaag  cctggacctc  ccttccatta  caatctcaag  aaatctcgtg  540
gaacaagatg  gcgtgcttca  tagcagtggg  ttgcatatgg  atcagagcca  cacacaagtg  600

```

866

```

tcccagtagc ggcaggatcc ctccctgata atgcgggtcca tcgtccacat gaccgatgtg 660
cgcggttctgg ggtcatgcct cctgcccagc tcaccaccat caaccagtct cagctcagcg 720
cccagttggg gttgaatttg ggaggtgcc a gtatgcctca cacatctcct tcacctccag 780
caagcaaatc agccactccc tccccttcca gctccatcaa tgaagaggat gctgatgaag 840
ccaacagagc cattggagag aaaagagctg ctccagactc tggcaagaag cccaagactc 900
caaagamaaa gmaamagaaa gatcccaatg agccacagaa gccagtgtca gcatatgcc 960
tgtttttcag agacacacag gctgcaatta aaggtcaaaa cccaatgca acctttggag 1020
aggtctcama aattgtagca tctatgtggg acagccttgg agaagaacaa aagcaggtat 1080
ataaaaggaa aacagaagct gccaaaaaag aatacctgaa ggccctggcg gcatacaggg 1140
ccagnctcgt ttctaaggct gctgctgagt cagcagaagc ccagaccatc cgttctgttc 1200
agcagaccct ggngtngacc aatctaacat                                     1230

```

<210> 1385

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<400> 1385

```

aagcaacgaa atattatgat gttctaaatc ctacctaaat attcttactc ttaaagctat 60
ggtcataaaa cccactggct ttcttcaaaa ggtagattac attattagaa agttgttaaag 120
atatattatc accaaactaa aactttgctt ttgctttatt cagaggaatt taaagataat 180
agacaagaaa ttctatttta gggctatgtc cctgtaccac actttaggga atgaaacact 240
gtcatatgtc ctgtcagata actgagttaa acatttctact ttgcagttaa caaaacagct 300
agagcctagg tataatgctg tggtagtgtt cttagttttt gctttttccg ttctctcata 360
ataagtgtac ctgagtatgt ct                                     382

```

<210> 1386

<211> 1202

<212> DNA

<213> Homo sapiens

<400> 1386

```

gagaactagt ctcgagtttt tttttttttt ttttttttgc tttacattac ttggtatgta 60
aataccttga ttaaaacctt gtaaaccaat ttcaagggtta ctataagttg tatagtacaa 120
gtgtttttta aaaatcttgg ggtgttttta aaaattaaga tatattttgc ccaagaattt 180
ttttaacaag attgctaaaa acatcttatt tagacacttc aatgtaccaa tttataattg 240
gatattcagt ttaaatagta cacagagttg tggcttttat tttcaattaa ttttttctct 300
tgtgggcagt gtgcatggta taataagcct gagcagaggc ttaagttgta tgtgtgcaga 360
gtttgtaaag gaatcaattg gaagatgcag aagaccgagg tttgctttca aggtattttt 420
caggctgtgt gggtaaaatt tgccctcaaat ttctatcaaa caggaatgta aaatagataa 480
aatcctatgt atttgaattg tcagagctag ggagtgcata tgttttggca atgtattcaa 540
aatgctggcc tgggcaccaa agagaaaata gccttttaca gttacatagt aagatgcgat 600
tagtaccac aaattactgt tttctaaaca tttgaagttt tacgattagc tttaaaataa 660
tgattttata aattggtggt cacaataatt ttggtattac tttctctctt tttccactta 720
gcaatatagc caaatgtatt caacataaaa attcataggg tctgaaattc atagctgggc 780
caaatttttt atggcacctt agtttttacca taatgggtcat ctattacact cttctgttat 840

```

867

```

aaaatataacc cttatttctt ttgtttatag tatctttgag gaatgttttt ggaaaagtta 900
atztatatatt tatagggaga aacttcaata aattatgtta actgtgcccc cgagttaaaa 960
atztatatgag tatatgtgaa acttgaacaa ctgaagactt tttttaattg ataaaaatgc 1020
ttagtatgcc tgttttgggtc tgccagtaaa ttaagtagct tattgagata actaacagct 1080
aaatatagct gtagtgtttc ctgactgtat attctatgat ttaataaaat tatccagact 1140
agttatattg ccacagtaaa catgtgactg aagtgtcctt catcttaatc tgaaagaggg 1200
ca 1202

```

<210> 1387

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc. feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (559)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (562)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (571)

<223> n equals a,t,g, or c

<400> 1387

```

gatacctctg tggtatgagt atttcaggga aaaagaaagc aggcattggca cccattcgat 60
tttccttgac agcatctgag atccttttgg ggagacgctg aggagtgttt gctgccatgt 120
actcttacag ctctatgctg aactcccat ttgatgtggt ccagaactta gacctcagtc 180
cttggatcag ccctgtgggt cctgcaagca ggggcattct tctgcatgtg agccagcccc 240
cttctgttcc aagggttctg ctggatctgg gcttttcctg tccttcactt ctgggatgat 300
tcaccccaaca tcttccagta ccctgtaaac cattttaaaa tatttagaaa actatcctcc 360
caaaaatgct ttgaaaaatg agagccctct gtccctgcca cttacagcta gtctctttgg 420
gataggggtg tatgtggaga gattcatgta agtctcacat gaggtagctg tgccccatg 480
tgtactaatg tgtgtactgg gtcagaaggt gccctgggtt cccacagacc ttggtttctt 540
gcctgggtgg gtgnaagna anggaactta nagaa 575

```

<210> 1388

<211> 1672

<212> DNA

<213> Homo sapiens

<220>

868

<221> misc feature
 <222> (311)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1652)
 <223> n equals a,t,g, or c

<400> 1388
 atataagcaa cacttcttcg gattgtcggc cctcagagga gagtgagctg ctcacagata 60
 ctaccaccaa catcctttcc ggcaccactt ctactgtcga atcagatata ttgacccaaa 120
 cagatagaga ggtggctctg cacgaaagga gtagctctgt ttccactatt gacactgccc 180
 ggctgattca agcttttggc catgaaagag tatgcttgtc acccagacga attaaattat 240
 atagcagcat caccaaccaa cagaggagat accttgagga agcggrcaaa cacagcaaga 300
 aagtgtgaa ntacaggtca tcccctagtgt acttctgagc acaccagaag gagacacatc 360
 caggtagcaa accatgtgat ttcttctgac tctatttccct cttctgcccag tagtttctctg 420
 agtctaaact ctactttttg caacaagcag aatgtacaca tgtaaataaa gggcatacaa 480
 gcaggtaact tggagattgt gaacggtgcc aaaaaacaca ctcgagatgt tgggataact 540
 ttcccaactc caagttccag cgaggctaaa ttggaagaga acagtgatgt gacttcttgg 600
 tcagaagaaa aacgtgaaga gaaaatgctc tttaccgggt atcctgagga cagaaagtta 660
 aaaaagaaca agaagratc ccatgaagga gtttckkggt ttgttctgtt ggaaaatgtg 720
 gagtctagrt caaagaagga aaacgtgcct aacacttgtg gccctggcat ctcttggttt 780
 gaaccaataa ccaagaccag accctggagg gagccactgc gggagcagaa ctgtcagggg 840
 cagcacctgg acggtcgggg ctacctggca ggcccaggca gagaggctgg cagagacctt 900
 ctgaggccat ttgtgagagc aacccttcag gaatcgcttc artttcacag acctgacttc 960
 atctcccgt ctggggagcg gataaagcgc ttgaagttaa tagtccagga gaggaagctg 1020
 cagagcatgt tacagaccga gcgggatgca ctattcaaca ttgacagga acggcagggc 1080
 caccagaatc gcatgtgcc gctgcccag agagtcttcc tggctatcca gaagaacaag 1140
 cctatcagca agaaggaaat gattcagagg tccaaacgga tttatgagca gcttccagaa 1200
 gtacagaaaa agagagaaga agagaagaga aaatcagaat ataagtcata ccggtgcga 1260
 gccagctat ataaaaagag agtgaccaat caacttctgg ggagaaaagt tccctgggac 1320
 tgacacaagt ttattttcct cagagccttg gaattctatt ttatgaacct agagaagcag 1380
 aatccttact tttgtgagtc tggttgaata aagcttattc tttgtccatg tgtatttttag 1440
 aaatagtaac ttctaaagag tctggaacaa agtggtgatt aaaattccta atggtttggg 1500
 agcaatactt tctgcatagt ggccttgtcc aatggcctgt gtgttacaat gatatgatca 1560
 tttctcaaga ataagtcct ttttgtatgt gtttttatac ttttagaaaa taaaaacttt 1620
 agattaaaaa aaaaaaaaaa aaaaaagata tntcgggtcg tcaagggaat tg 1672

<210> 1389
 <211> 448
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (334)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

869

<222> (404)

<223> n equals a,t,g, or c

<400> 1389

```

ggcccatcct ggggtgaggct ggggctctcc tgggcactgt atgtattctg gatacagggg 60
tactgggctc gctatgtgtg tggarccatc ccttccttgc cccagcccca cctccctctc 120
aaaccctctc tggctctttc tgagcttcc ttcctgctcc ccagcttgcc cagtgtcag 180
tgccccactt ggctcttttg ctacttcggg tcaggtggaa cctcttgga atgtgaartg 240
ccttacagaa agattgcact tcaagargar argctscagg gaaccatcct aaacccaaaa 300
gcctggaact tactgkgctca ctttactttt gttnacaaagg gtctccttaa tgccctcgaa 360
aaagatcttg ggcctgaact tctatcctga aggccacctc tgncaaccc aactccctca 420
actcttaggt gttatctcaa ttggaaaa 448

```

<210> 1390

<211> 882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<400> 1390

```

gttctcttgt aggaaatgac cttcactctg ggtttaactg gagtggcatc acctcccagg 60
gagacagtta cttcctggag gargtggtgt ttcctccacc cataggtgcc ctgccccatc 120
ctcatggtgg cagcaaatca gcatgtgctg gggagaccct ggggtagcag cactgacct 180
cacacctgga ggaagctgtg tgaccgattc atgagcttat gcctgaagac agagcaagca 240
ctccccgcac cagcagcatg acgttcactt gtwttgwgtt ttcgatctc ttcaacgcct 300
tgacctgccg ctctcagacc aagctgatat ttgagatcgg ctttctcagg aaccacatgt 360
tctctactc cgtcctgggg tccatcctgg ggcagctggc ggtcatttac atccccccgc 420
tgagagggt cttccagacg gagaacctgg gagcgcttga tttgctgttt ttaactggat 480
tggcctcatc cgtcttcatt ttgtcagagc tctcaaact atgtgaaaaa tactgttgca 540
gcccgaagag agtccagatg caccctgaag atgtgtagtg gaccgcactc cgcggcacct 600
tccctaatac tctcgatctg gttgtgactg tggcccctgc cgtgtctcct cgtcagggga 660
gacttttagg aggcgcagc cttccatcac cggatcagtt tttcctctta ggaaagctgc 720
aggaacctcg tgggctccag ggacccaggc ccacatccat ccagcgttcc cgtggctgt 780
gggacagaca gggagggggc tgtacagaaa caccacactg tttattaaat cacaatgatt 840
tttattaaaa aaaaaaaaaa aaaaaanaaa aaggggcgcc gc 882

```

<210> 1391

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

<220>

870

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<400> 1391

```
ccaccccagg gtctggtccc tgacgacgcg cagtgagggc cccgccgcta cccagcagt 60
cgcctcccaa gttcgcgga cgcagctgac cggctccctc tggactgggt gacatgactg 120
ctcccaagca gtcgtttgta aactgagttt ctgtaaaaca attttatttt tcatatgtga 180
ctgtagcggg gtatgatttg aactttgttt tccgtccccc agcccggtt ctctgtcttc 240
tcctgtacag ccgntccgtt ttcttacctc gtctccgtca ccgaggccct cagccctgaa 300
cacaaggact gggcagtttc cctattgatt cctgaacctg gaacttaaga catcttccga 360
ggggccccc cttgncacac cctttagctg atcgacttac aaatacctgg gattctntcc 420
ccg                                         423
```

<210> 1392

<211> 856

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (747)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (811)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (843)

<223> n equals a,t,g, or c

<400> 1392

```
cccacgcgtc cgcttttttt aatctatgtt attgtgagct tgtgcaatgc aagtggctct 60
```

871

```

tattataata atgaaatagc tactccattt aattctttac atgtccaatg ccagctttct 120
ctccgtttgc ctgttagccg agaaccctgt gcaactctct cctggatgtc atgggaaata 180
tgacaaagag asaacacttg gtcttggcct caaaggactc gtaatacaga agacccgaga 240
aggatgtacc tgcaggggta tctacagsag aaatttaatm aaatacttgg cacatcgag 300
ttacaaagaa agttttcaac gtggggccatt ggccactgca ggtttctttg tgagaaacat 360
ttgtgtgtnt ttttatccga gggaacaaaa ccctaggaaa ggaagtttca tcatctactc 420
ccatttttcc tccttcttga acaaaacttt tagctcaagg aacactgctt ttgaaggctt 480
gtgtttcatg cagcctgctt ccttagttga tctgttcaca agatcacatc aagtaattty 540
ttccattctg ggaagatggc gaaaacaaac agatactgtc agcagatgtt gatgaaccac 600
ctttccagaa ataaacagtg gcaggggaaca gagaaagcct ggagaatccc catcagtcac 660
cagccggaga agaccttttc ctgggctgga gtccttgctg ggggaacgtc tgttctctgc 720
agcctgaagn agctctgggc caggagncag cactcagcaa gtccctaagac caattaccat 780
cctgggtcca ttttgggttt gttaaagtcac ngaatttttc tctccagggc cttagtgcc 840
gtntgtaaat gtacca 856

```

<210> 1393

<211> 641

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (576)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (606)

<223> n equals a,t,g, or c

<400> 1393

```

gtagtaattg aattattatc agaagtaaat tgacctcaaa aaaagtaatt gggaaaatta 60
agtttatggc actttgtgta ataactgtat tgatgatgaa gagaagggtta gtactgtaat 120
ttgttttgta taagtctagt gcatatttgg attgagtatg tttttaaaaa gccattgaaa 180
accacatttt gtttggtttt agttacagtc tttgactgtc ccaactatga actttattaa 240
ctttattcat acacatagaa atacattaca caagcatcaa acataaacat tcagatcact 300
cacttcatct ttctcctggg cctaaaactg tcagtatatt tgcagttttc tgatatgtgt 360
tgtctgcatt cagaggactg tcaagagtca tagataggca tctgaatgaa gctttgagct 420
tcttaaaatg caagggtggg gaaacacagg ataccaggaa gagaaaggat attgttcata 480
tagttgtggc agtggccttg agaactgtct tggctagaga tagattagga atctgnatta 540
atcctggaca ttgggggttc tttagtggat cccttnagct ttccctgccc ggctctaccc 600
attagntatc cagcaattta tgggccagtt aggaacctcc a 641

```

<210> 1394

<211> 712

<212> DNA

872

<213> Homo sapiens

<220>

<221> misc feature

<222> (705)

<223> n equals a,t,g, or c

<400> 1394

```

ggtggtggtt catggatggt gataaggaat taaaatgtac cgtgcgactc tctgtttcag 60
tggtgacttt tacctgttta gtataaatat tcctttgctt ccaaccataa atgtgttctt 120
agaaatgggc ctatagttta gtaacctata gtttggtaat aggcttggtt gttttcagat 180
ggattttggt tctgtgagct aaagctatgt tgcattaaag ccttcgtcct cacacattgt 240
tttgacatat ttctagtctt cataaacttt ttaatttag atttttttcc cttcacaagt 300
atacatctgt tttagcaaat agccttatga aggttgtaga tgtattatgt tgggcatgcc 360
tggtgatttc tataattttt ccaattacat ttaaagcttt atgttttagg aatataagta 420
cattttatgt ctacttttta ttatatatat ttaattgcac aagtactact gtctagaaaa 480
aaatgggatg ttgctaacac agcattgttg gcttgtaggc agtgctgtcc tgtaaataga 540
ttgaaatgta tttttatcag ctggtatata aatttgagga aagaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaanggggg gg 712

```

<210> 1395

<211> 920

<212> DNA

<213> Homo sapiens

<400> 1395

```

aatttttcac ttccagacgg cgatacaggg attccagatg cgcttttacc gttccggtac 60
tgatattcag cgctctgccg atctccttat ttgattcgcc cgccgctaac atgggttaaaa 120
tctcccgtcg gcgggcgctt aacgatttga gatctttaat gtccttttcc ggcgctcgcc 180
gccagtctcc aggcaaaac atcatcccca tcgccgactc atttaccgcc aacgcaaatg 240
tctcgacggt tgaatcacga ggcacaatgg ccagcacatt aaaatggata acttctctgta 300
accaccgttt attgcaatcc gtcgccgtaa ttaacacctt aacctcagga aattgcacca 360
cggttttttg cagcaaccag tagcaaaact caccatcttg atcgccatcg agcataacta 420
aggottcagg gtaactttcc agcttttgcc ataactcgtc tgcttgactg gccccctgaa 480
tactcactcc tggaatacgc tgctgtaaac tgattttcat tccatgaata aatattgact 540
gcctgtcaaa catgactatt tgcataactg aatctccacc tgaatacgtt aaaaagactt 600
aagtagtgga agggatttac ccgcgagaaa aaataagaat tcgccatttg gcggtggcca 660
ttctacagag atgacgtgta gaaaatagtt accgatataa atagttacag ctaaacgcct 720
gaaattacat gtcgagggca ctatttataa caattttgag gatttcctta tattggtggt 780
tagtacgcat gcaattaaaa atgaaattcc gcgaccacaa gccaaaataa caaacggcaa 840
ggagacaaaa ataagcacaa atagccaaca cgtcctctgt tcacttttaa gggaatcgct 900
gaaaaatacg ctctgtttta 920

```

<210> 1396

<211> 1101

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

873

<222> (930)

<223> n equals a,t,g, or c

<400> 1396

```
tgcagccacg cgtccgcccc cgcgtccgca acccctctt taaaatgcaa aatggccctt 60
ccctaaaata acacacaacc acaaccgcag ctggctctgc acgaaggcca tgctgcagct 120
cttttcttcg gaagtcgatt ttcctccgtg gaatttggct gggcttgtgg tagcgtttga 180
gactctgcaa gagcacgtcc acgccaacca gtctctggtc accgactggc tcgcaaattc 240
cccatttaag gaaaccagca ggccctctgt atgaaactcg gggaaggaat gtgaattatg 300
ctccatgcgg aggctcctgc tcctgcacgt tttccagcct tttccatggg ccacggtgga 360
gcatttgggg aaggcctgtg tggattcccc cccaagtcca gactgatgcc cctgatacct 420
tctcaggagg tggcggaggg tctgggctct gtccaggctc ctaggggtgg ggacgtgcag 480
gtaaagcaag gcgtctgccg cagacgcggg agccttcctt gggctggctg ccagcacctt 540
ggagtcccag gctgccagga aaagtccacc cacaccggg ctttgcctggc gaagggtgag 600
tcatatgatg gccgggctcg ggccctcagc agacaccaag tgtgttccca gagcagccgc 660
tcagcgcctg taacctggaa caggccagcy tttcggggsc tcagtcttct catctgccta 720
atgggaatag caattcccac ctccctgtg ttggttgggt tctcactaga tgcacaggag 780
acagcagctt kagagggact gtttggarar ctgttccatg tgacaccctt cttaccctgt 840
ccccacgggg ccggaggagc aggggcttgg tgatagcagc tgggcgcagt cagcctctgc 900
agggaagagg gcatgtttgg ttcgaggctn ytatgccctc attcttgttg atcttgtcac 960
agccccctctg gaagggtggag atggtactcg ctcaggaacg ataccactca aggaagcatg 1020
gcccccttga tggggtggcc cttggtgcac ctgaggctcc tgaggctgca gagcaccatg 1080
gtggggggagg aggcggctgt g                                     1101
```

<210> 1397

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 1397

```
ttaggcagaa tgatcacctc cgttgtttca ggtactctgt gtttatttat gcaacagttc 60
atgtaaaatg gagacgaggc cagargawtc cttgagcagm cagagccagt tgggcctcct 120
aagtgcacct aaccttgctt gatttgcaag catgtctgaa actttatttg tggattttct 180
tgtaaatgcc tatgttaaag aaacacagaa cttaagctca accaatcaga agcagccaac 240
aaaaacgtaa ttagtaacta ggacttcctc atgggataga ccaaataagg caactgtata 300
actgtgtaac tgtataactg taaccaatga aatattatct ttgcttttat ctatttgtcc 360
taaaaagcct cctcctcatg ttctctctgg ggagctccct akccacttct ggmtcactgc 420
tcaaataaac tcytaaata tttaaaan                                     448
```

<210> 1398

<211> 763

<212> DNA

<213> Homo sapiens

<400> 1398

```
agatttacct tgagcacttt ccaaattgat actttcaaac ttattttaaa gcagtagaac 60
```

874

```

cttttctatg aaytaawtca catgcaaaac tccaacctgt agtatacata aaatggactt 120
acttattcct ctcacyttct ccagtgccta ggaatattct tctctgagcc ctaggattga 180
ttctatcaca cagagcaaca ttaatctaaa tgggttagct ccctcttttt tctctaaaaa 240
caatcagcta ataaaaaaaa aatttgaggg cctaaattat ttcaatgggt gtttgaaata 300
ttcagttcag tttgtacctg ttagcagtct ttcagtttgg gggagaatta aatactgtgc 360
taagctgggtg cttggatata tattacagca tcttggtgtt tatttgacaa acagaatttt 420
ggtgccataa ttttttgaga attagagaag attgtgatgc atatataata acactatttt 480
taaaaaatat cttaaataatgt ctcacatatt tatataatcc tcaaataatac tgtaccattt 540
tagatatttt ttaaacagat taatttggag aagttttatt cattacctaa ttctgtggca 600
aaaatgggtgc ctctgatgtt gtgatatagt attgtcagtg tgtacatata taaaacctgt 660
gtaaacctct gtccttatga accataacaa atgtagcttt ttaaagtcca ttgtattgtt 720
ttttctttca ataaaagagt ataattaatt gtgttggttt tga 763

```

<210> 1399

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<400> 1399

```

cgttgccagt gtatgacaaa agtaggagtt agtaaaactaa tatattttgt acattttgtt 60
ttacaagtcc taggaaagat tgtcttctga aaatttgatg tcttctgggt tgatggagat 120
gggaagggtt ctaggccaga atgttcacat ttggaagact ctttcaaatt ataactgttg 180
ttacatgttt gcagtttatt caagactgct gtatacatag tagacaaatt aactccttac 240
ttgaaacatc tagtctatct agatgttttag aagngcccga tgtatgttaa aatgnataag 300
gtattaaata cccctttgg 319

```

<210> 1400

<211> 1575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1450)

<223> n equals a,t,g, or c

<400> 1400

```

gcaagttcag attcgtattt tggatgtcaa tgacaatata cctgtagtag aaaataaagt 60
gcttgaaggg atgggtgaag aaaatcaagt caatgtagaa gttacgcgca taaaagtgtt 120
cgatgcagat gaaatagggt ctgataattg gctggcaaat ttacatttg catcaggaaa 180
tgaaggaggt tatttccaca tagaaacaga tgctcaaact aacgaaggaa ttgtgacct 240

```

875

```

tattaaggaa gtagattatg aagaaatgaa gaatcttgac ttcagtgtta ttgtcgctaa 300
taaagcagct tttcacaagt cgattaggag taaatacaag cctacaccca ttcccatcaa 360
gggtcaaagtg aaaaatgtga aagaaggcat tcatttttaa agcagcgta tctcaattta 420
tgtagcgag agcatggata gatcaagcaa aggccaaata attggaaatt ttcaagcttt 480
tgatgaggac actggactac cagcccatgc aagatatgta aaattagaag atagagataa 540
ttggatctct gtggattctg tcacatctga aattaaactt gcaaaactty ctgattttga 600
atctagawat gttcaaaatg gsacatacac tgtaaagatt gtggccatat cagaagatta 660
tcctagaaaa accatcactg gcacagtcct tatcaatgtt gaagacatca acgacaactg 720
tcccacactg atagagcctg tgcagacaat ctgtcacgat gcagagtatg tgaatgttac 780
tgcagaggac ctggatggac acccaaacag tggccctttc agtttctccg tcattgacaa 840
accacctggc atggcagaaa aatggaaaat agcacgccaa gaaagtacca gtgtgctgct 900
gcaacaaaagt gagaaaaagc ttggggagaag tgaaattcag ttcttgattt cagacaatca 960
gggttttagt tgtcctgaaa agcaggtcct tacactcaca gtttgtgagt gtctgcatgg 1020
cagcggctgc agggaagcac agcatgactc ctatgtgggc ctgggacccg cagcaattgc 1080
gctcatgatt ttggcctttc tgctcctgct attggtacca cttttactgc tgatgtgcca 1140
ttgcggaag ggcgccaaag gctttacccc catacctggc accatagaga tgctgcatcc 1200
ttggaataat gaaggagcac cacctgaaga caagggtggtg ccatcatttc tgccagtgga 1260
tcaagggggc agtctagtag gaagaaatgg agtaggaggt atggccaagg aagccacgat 1320
gaaaggaagt agctctgctt ccattgtcaa agggcaacat gagatgtccg agatggatgg 1380
aaggtgggaa gaacacagaa gcctgctttc tggtagagct acccagttta cagggggccac 1440
aggcgctatn catgaccact gaaaccacgr agaccgcaag gcscacaggg gcttcagag 1500
acatgggccg gagcttcagg cagctgctgt ttgcactgaa cgaggaattc ttaaaaaatt 1560
tatttcactg gtttaa 1575

```

<210> 1401

<211> 1313

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

876

<222> (1295)

<223> n equals a,t,g, or c

<400> 1401

```

caacacccca tctctctctc tctaaaaaaa gagaactggc cgtgagctat tgtgcccagc 60
tgggatcttg acaaagacac tatttctctc ctttcacctg tgctgtgtat ttttcctcgc 120
cctagtcccc agacctcact gctatatgtc ttctccctgg caggcaggat gacgcaaaac 180
acggtgattg tgaatggagt tgctatggcc tctaggccat cccagcccac ccacgtcaac 240
gtccacatcc accaggagtc agctttgaca caactgctga aagctggagg ttctctgaag 300
aagtttcttt ttcacctcgg ggacactgtg ccttccacag ccaggattgg ttatgagcag 360
ctggctctag gggtgactca gatattgctg ggggttggtga gttgtgttct tggagtgtgt 420
ctcagcttgg ggccctggac tgtgctgmgt gcctcaggct gtgccttctg ggcgggggtct 480
gtggtgatcg cagcaggagc tggggccatt gtccatgaga agcaccggg caaacttgct 540
ggctatatat ccagcctgct caccctgrca ggctttgcta cagctatggc tgctgttctc 600
ctctgctgta atagcttcat ctggcaaaact gaacctttt tatacatcga cactgtgtgt 660
gatcgctcag accctgtctt ccctaccact gggtagagat ggatgcggcg aagtcaagag 720
aaccaatggc agaaggagga gtgtagagct tacatgcaga tgctgaggaa gttgttcaca 780
gcaatccgtg ccctgttctt ggctgtctgt gtcttgaagg tcattgtgtc cttgggttcc 840
ttgggagtag gtcttcgaaa cttgtgtggc cagagctccc agccctgaa tgaggaagga 900
tcagagaaga ggctactggg ggagaattca gtgccccctt cgccctctag ggagcagacc 960
tccactgcca ttgtcctgtg agcygccaaa gacccacgg ggtgcccga tgccctgtc 1020
tagggcagcc cagggccccc actcctggct cctcacactt gcctccccta tggccgctct 1080
ccagaccctc ctcccttctt tccccacat ccgcacctgc tgttccact ctgggggttct 1140
caagtccatg aacagataat gttgcatttt ccacaatgct gattaaacat aataaacaat 1200
ccagaaaagc aaaaaaaaaa aaaaaaargg cggccgctct aaaaggatnc ctggaagggg 1260
cccaagcntt aagcgttgca tngnaagtca naagnctttt ccctaatagt gaa 1313

```

<210> 1402

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<400> 1402

```

cactaaggga acaaaagctg gngctccacc gcggtggcgg ccgctctaga actagtggat 60
cccccgggct gcaggaattc ggcacgagtg aacccttgct tgatacgcac atagtgaatg 120
gagaaaagaga tgaaactgcc acagctcctg catcaccac aacagayagc tgtgatggaa 180
atgcttctga cagtagctac aggactccag gcataggccc agtggctccc cctagaagaa 240
agagggggcag aaacagaaac caaggtacaa gagagggaaa atggggaaag ccctctggaa 300
ctggagcagc tggaccagca ccatgagatg aaggagacta atgagcaaaa acttcacaaa 360
atagccaatg aacttttgct tactgaaaga gcttatgtca accgacttga cctcttagat 420
caggatattt attgcaaact gttggaagaa gcaaaccgag gctcgtttnc agcagagatg 480

```

877

gtgataaaat ctttttcta atttcatcaa taaatgcttc catagtaa at

530

<210> 1403

<211> 1410

<212> DNA

<213> Homo sapiens

<400> 1403

```
gaaaatgtat ataataggca aggaaagaaa tacagtactg tttctggacc cttataaaat 60
cctgtgcaat agacacatac atgtcacatt tagctgtgct cagaagggct atcatcacc 120
tacaactcac attagagaac atcctggcct ttgagcactt ttcaaacaat caagttgact 180
cacgtgggtc ctgaggcctg cagcacgtcg gatgctaccc cactatgaca gaggattgtg 240
gtcacaactt gatggctgcg aagacctacc ctccgttttt ctactagata ggaggatgg 300
agaagtttgg ctgctgtcat aacatccaga gctttgtcgt atttggcaca cagcagaggc 360
ccagatatta gaaaggctct attccaataa actatgagga ctgccttatg gatgatttaa 420
gtgtctcact aaagcatgaa atgtgaattt ttattgttgt acatacgatt taaggatatt 480
aaagtatttt cttctctgtg agaaggttta ttgttaatac aaggtataat aaaattatcg 540
caacccctct ccttccagta taaccagctg aagttgcaga tgtagatat ttttcataaa 600
caagttcgag tcaaagttga aaattcatag taagattgat atctataaaa tagatataaa 660
tttttaagag aaagaattta gtattatcaa agggataaag aaaaaaatac tatttaagat 720
gtgaaaatta cagtccaaaa tactgttctt tccaggctat gtataaaata catagtga 780
attgtttagt gatattacat ttatttatcc agaaaactgt gatttcagga gaacctaa 840
tgctggtgaa tattttcaac tttttccctc actaattggg acttttataa acataacata 900
aattttttga agtctttaat aaataaccca taattgaagt gtataatata aaaaatttta 960
aaaatctaag cagcttattg tttctctgaa agtgtgtgta gttttacttt cctaaggaat 1020
taccaagaat atccttttaa atttaaaagg atggcaagtt gcatcagaaa gctttatatt 1080
gagatgtaaa aagattccca aacgtgggta cattagccat tcatgtatgt cagaagtgc 1140
gaattggggc acttaatggc caccttgtaa cagttttgtg taactcccag tgatgctgta 1200
cacatatatt aagggtcttt ctcaaagaaa tattaagcat gttttgttgc tcagtgtttt 1260
tgtgaattgc ttggttgtaa ttaaattctg agcctgatat tgatattggt ttaagaagca 1320
gttgtagcaa gtgaaattat tttggagatt ataataaata tatacattca aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1410
```

<210> 1404

<211> 1442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1419)

<223> n equals a,t,g, or c

<400> 1404

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cttctatatt agatggacag atttatatac ttttccatgg aggattaagt aaactgaaac 60
ctaagacaca cgaagaaatt ctaagtggaa aggccactta ttagttagtt tacagcagta 120
```

878

```

tcgtaagtga caggatgata ggagtgtggt aagtgatcag gataataatc tgcttagtaa 180
gagaaacaat ttgaatttta gaaggaaatt gccttaccat ttgcaaatta aggtaatata 240
aatacagtga atttcaaaat gcctttttta tgacaatgtg tgaacttaat ttgttttaata 300
aaacccaaat tgttggttatt gtgttaaggc tattttacat tgaatgtgta tcttgccact 360
gatgttaact tatcccatct tacccaaggc tgtaggtaac aatatactat tgggtgacag 420
tggaactaaca tctctagtga tccctttgtc agtgggtctt aacttaaaat aatttagaga 480
atatggtttc tacaacttac atttttgttt wcttgtaact acagattatt atgatggttg 540
taatgaagat tatgagtata attggagcta tatgtttctg aattctgaac aactatttat 600
aaaattttat cctacttttt tctgttgaac atatgacttc tctgggtctgc taaacacata 660
cagaccttta gttttgggtt acatggattt aaatatatag atatatcact gtaaaataaa 720
cttcaggtgt aacagattta tagagaaagt aatcataatt gtttatgggt gtgtacctac 780
tttgagaaga aaagaaaaat attagaatga acagataatt ttacaagtgt tgatcactta 840
ccagcaaacc agaaacttca gagattttga aagcaaactc attttctctg ctgtgtatta 900
aattcattta tctaaaatgt tattgtctct ggcttagaat catcttgtgc aaattctctt 960
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cattctttgt ataatcacct cagagattat gaaagtgcact ttgataaaat ttaatgggtgt 1080
tcacaaaata attttcacgt gagtaatttc acagtgcgtg tattgtatgt tatttagtgt 1140
attttatatt ttgtttcaat tagagaatgc tattgaatcc agtttttgtt tagttactgt 1200
tcattttact ttataaaatt gacataattg agtttattaa atttattggg ccaatttaag 1260
taaacagttg aacgtttcat aagtcatgag gtctttttgg gcatatacat gaagtaaaca 1320
aagacaatac taggctatgt aataggragg ctaccttaat taggaggtaa atattcnttt 1380
tggaatttgg gcccggtggc ctcgggtgga aaatggggna atatccctag gtaaaaaaat 1440
gg 1442

```

<210> 1405

<211> 1689

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (976)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1671)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1680)

<223> n equals a,t,g, or c

<400> 1405

agctccaccg cggtgacgnc cgctctagaa ctagtggatc ccccgggctg caggaattcg 60

879

```

gcacgaggtt acattcagta tggtaatgaa gaacagagaa aacaggcttt tgaagaattg 120
cgagatgatt tggttgagtt aagtaaagcc aaatattcga gaaatattgt taagaaattt 180
ctcatgtatg gaagtaaacc acagattgca gagataatca gaagttttta aggccacgtg 240
aggaagatgc tgcggcatgc ggaagcatca gccatcgtgg agtacgcata caatgacaaa 300
gccatttttg agcagaggaa catgctgacg gaagagctct atgggaacac atttcagctt 360
tacaagtcag cagatcaccg aactctggac aaagtgttag aggtacagcc agaaaaatta 420
gaacttatta tggatgaaat gaaacagatt ctaactccaa tggcccaaaa ggaagctgtg 480
attaagcact catttggtgca taaagtattc ttggactttt ttacctatgc accccccaaa 540
ctcagatcag aaatgattga agccatccgc gaagcgggtg tctacctggc acacacacac 600
gatggcgcca gagtggccat gcactgcctg tggcatggca cgcccaagga caggaaagtg 660
attgtraaaa caatgaagac ttatgttgaa aagggtggcta atggccaata ctcccatttg 720
gttttactgg cggcatttga ttgtattgat gatactaagc ttgtgaagca gataatcata 780
tcagaaatta tcagttcatt gcctagcata gtaaattgaca aatatggaag gaaggtccta 840
ttgtacttac taagccccag agatcctgca catacagtac gagaaatcat tgaagttctg 900
caaaaaggag atggaaatgc acacagtaag aaagatacag aggtccgcag acgggagctc 960
ctagaatcca tttctncagc tttgttaagc tacctgcaag aacaygcccc agaagtgggtg 1020
ctagataagt ctgctgtgtt gttggtgtct gacattctgg gatctgccac tggagacgtt 1080
cagcctacca tgaatgccat cgccagcttg gcagcaacag gactgcatcc tgggtggcaag 1140
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gagcaagata aaaagwtgaa agaaaatggg agagaaggtt gttttgcaaa aacacttgta 1260
gagcatgttg gtatgaagaa cctgaagtcc tgggctagtg taaatcgagg tgccattatt 1320
ctttctagcc tcctccagag ttgtgacctg gaagttgcaa acaaagtcaa agctgcactg 1380
aaaagcttga ttcctacatt ggaaaaaacc aaaagcacca gcaaaggaat agaaattcta 1440
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ttctctgttc tgtttcccaa tgcagaaaag aaggggtagg gtccaccata ctggttaattg 1560
gggtactctg tatatgtgtt tcttctttgt atacgaatct atttatataa attgtttttt 1620
taaattggtmt ttttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg ncccccaan 1680
gggccccaa 1689

```

<210> 1406

<211> 708

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (675)

<223> n equals a,t,g, or c

<400> 1406

```

ggttttggat gttgctgccg gcatgattaa accagggtga actactgaag aaatagatca 60
cgctgtacac ttagcatgta ttgcaagaaa ttgctaccct tctcccctga attattataa 120
tttcccaaag tcttgttgta cctcagtga tgaagtcatt tgccatggaa taccagacag 180
aaggccctta caagaaggtg acattgttaa tgtggatata actctttatc gcaatggtta 240
tcatggggac ctgaatgaga catttttttgk tggagaagtg gatgatggag cacggaaact 300
tgttcagacc acatatgagt gcctgatgca agccattgat gcagtgaagc ctggtgttcg 360
gtacagagaa ttgggaaaca ttatccagaa gcatgcccaa gcaaattgggt ttttyagttgt 420
tcgaagctat tgtgggcatg ggaatccaca agctttttca tacagctccc aatgtacccc 480
actatgctta aaaataaagc agttgggagt gatggaagtc gggccatgta tttacaattg 540
gagccaatgg tttgtggaag gcggatggca ggatggaaac ctggggcaga tgggtgggac 600
tgcggtggac aagagacggg aaagcgggtc gcttcaattt tgagccacca acccttcctg 660

```

880

gttcaacagg acaantggtt gtggaaaatc cttaaccccg gcggcttt

708

<210> 1407

<211> 838

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (753)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (810)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<400> 1407

```

accacgcgt ccgctcatat caccaatcct gagcaaacc ttcttggaac taatttgaca 60
ggattttctt caccggttga caatcatatg aggaatctaa caagccaaga cctamtgtat 120
gaccttgaca taaatatatt tgatgagata aacttaatgt cattggccac agaagacaac 180
tttgatccaa tcgatgtttc tcagcttttt gatgaaccag attctgattc tggcctttct 240
ttagattcaa gtcacaataa tacctctgtc atcaagtcta attcctctca ctctgtgtgt 300
gatgaagggt ctatagggtt ttgcactgac catgaatcta gttcccatca tgacttagaa 360
ggtgctgtag gtggctacta cccagaacc agtaagcttt gtcacttgga tcaaagtgat 420
tctgatttcc atggagatct tacatttcaa cagctatttc ataaccacac ttaccactta 480
cagccaactg caccagaatc tacttctgaa ccttttccgt ggctgggaa gtcacagaag 540
ataaggagta gataccttga agacacagat agaaacttga gccgtgatga acagcgtgct 600
aaagctttgc atatcccttt ttctgtagat gaaattgtcg gcatgcctgt tgattctttc 660
aatagcatgt taagtagata ttatctgaca gacctacaag tctcacttat ccgtgacatc 720
agacgaagag ggaaaaataa agttgctgcg canaactgtc gtaaacsma attggacata 780
atthtgaatt tagaagatga tggtatggtt acntggccag ccaagaagg naaccctt 838

```

<210> 1408

<211> 932

<212> DNA

<213> Homo sapiens

<400> 1408

```

gaagaatctt actgaaaatc aagaagctct tgcaaaagaa atgcgagcag atgcagatgc 60
ctatagacga aaagtggatc ttgaagaaca catgtttcat aagctgatag aagcaggtga 120

```


881

```

aaccagagc cagaaaactc agaaggtgat taaagaaaat ttggcaaagg ctgaacaagc 180
atgcctaaat accgactggc agattcagtc ttacataaaa caaaaatgtg atgatctaca 240
acgaaacaaa tgttaccagg aagtagccaa actccttagg gaaaacagaa ggaaagaaat 300
agagataata aatgcaatgg tggaggagga agccaagaag tggaaggaag ctgaaggaaa 360
agagttccgt ttgagatcag caaagaaagc ttctgctctt tcagatgcgt ctagaaagtg 420
gttttttaaag caagagataa atgcggctgt agaacatgct gaaaatccat gtcataaaga 480
agaaccagg ttccaaaatg aacaggactc aagctgtttg cctagaacct cacaattaaa 540
tgactcttct gaaatggatc cctcaacaca gatttcttta aatagaagag cagtagaatg 600
ggacaccacg ggacagaatc ttattaagaa agtgagaaat cttcgccaga gactcactgc 660
ccgggctcgt cacagatgtc aaaccctca tcttttggct gcatagaatg catgtcacct 720
tgagacggtc gagagagaga cctattttgc aatcagtgac attgattttt agattattta 780
tttaaaattc ctataaagat cagccctttg tacagaaaaa tgtgtctata aaaattatgt 840
gttattttaat tctgatactt tttggcttgt aaatggcttc ttgaactttt tacaataaaa 900
atgttttaga aactgttaaa aaaaaaaaaa aa 932

```

<210> 1409

<211> 765

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (749)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (751)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (760)

<223> n equals a,t,g, or c

<400> 1409

```

caaaatcagt gctgtgcccg gcgtcaggcg tggagacaac agaaagttgt gcttaaagct 60
cgaatcagaa atccccggcg agtgtctctg tgtctctcct gcttctctgc tctgtgccat 120
ccttactttg caccattcct attgcaatta cctcaaccag ttcgctgccc tcggtctctc 180
accagccaga gtgatcattt aaaatgccaa tcagttcctg tgggccttgg gaatmatyca 240
gaggagcccc attggctgag agataaaaatt ctgtttttac ctgggcacgc gggctctcca 300
ggatttgatt ccagcttacc tttccagtc tgaattcccta tattccagta tttggaaatg 360
tgggccttgg actgaggett taccaaataa cgctgarcac ctagtattgc cttttgcacg 420
aatggtactg atggtgcccc agataactgc ctccamcccc aagttcagga cccagatcac 480
tctctggaga aggctcagc ctcttgccctk ggctttcaag gctctgcgtg atttggtatc 540
tcgcttagct cttattttata tatattttta aagcatcagc agtttatctc atgccacta 600

```

882

```

aactatcctg cctccgtacc ctttggtcat actttctgct ctgtgtggaa tgccttctt 660
tcttccccctg ntctttctct tagacccaag ggttctcaag ccttatttct gcctctccca 720
tctcaaaaaa taaaataaat aaataaacnt nataaaaaan tcaaa 765

```

<210> 1410

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<400> 1410

```

agtgagctga gatcatgccg ttgcactgca gcctgggnga cgagcgaaac tctgtctcaa 60
aaaacaaaaa aaacaaaaaa gcaaaaaaac cccacaatcc agtgagtaag acctcagccg 120
gcctgagggtt cacagggttt aaatggaatg cagtgggaag taaagagtga tcccaaggag 180
aagtaaaaaat cttgacacct tactctcttc ggcttgtccc acttttcttc aactgccccg 240
ctactggaac attttctctt tctcaatttc gattgtcccc ttaagcaatt tactaattag 300
acattaaaaac ttctatttct ctcaatccca aagcaaaact gatgagcaga gcaaaccaga 360
gcagttgggg ccagaacaga acaaagacgt acctgatgca gggaattgaa gccagacca 420
aaacggggca acccaatagg atggggccatc tgccccatt aatgccagct tgtccaagtg 480
taattattaa cagtgtcccc tttcactctc caaagagtcc tgtccagaca gt 532

```

<210> 1411

<211> 552

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<400> 1411

883

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nattatccct cactaaaggg aacaaaagcn gngctccac cgcggtggcg gccgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc aagtaattta tatttctatc 120
tgttgtgtat ataatcgtct ctttagagtt ccagacagct gctagtgtcc aaatatgttt 180
ttctaaagaa atatttttgt tgtgagtacc aacagtccta gtaactctct tatccctctt 240
atgtgctgag tacagtcgga ggaagaggaa ttggagttgg tgagtgtggg tttctgcttg 300
aaggaagttg aaaaagatgt agaaagtact aattctctta cgtgttgta tctaaccaat 360
gtnccttttg ttacacaaat ttttttaaac actattcaaa cactttgaat aaagcaatct 420
actggactta cagactctag ttttcttatt tataattgta tgtgttgacc cattttattt 480
gttggaggga acattggaat agagccttta aaaacagtag ctgtccatga gcataggata 540
cttgtaatt tt 552

```

<210> 1412

<211> 1100

<212> DNA

<213> Homo sapiens

<400> 1412

```

ggctaaattc tactcttgaa gggtcgtagt ccacagcacc aaaatgactt aagtcctata 60
aaaaaaaaa aaaaaagtta attctctgca ctgaagaaag tccataacct gctcattttg 120
ggcaattctt tctcagtttt atctttttct ttggctaaat ccttaatcat ctgcttcagc 180
tgtttctgat aatcaactgc atcaccttga aacaaaggaa aacaatatgt ggtttaattt 240
aaataaattc agtgacagca aaaaggaaac tatgtaggag agaggagcaa gggggtgagg 300
aattccacta agcaaattcc atacaaaact ggaaagcaag agattcccct ggagagccag 360
tgggtggtaa ctgggggact tctgctctaa gaggaccctg gaaacagcaa acaggaggaa 420
ggaacttggt ggtgggggca aggggcagcc acccagcaac acccccacta ggagcacttc 480
tgtcctctaa aggcagtgag tttggggata attcattgga cgaagggaaa agacaaggct 540
gctacaagaa gagggatgag ggcaaccctg gtgcctcccg ccactgcagt ggtatgcagg 600
ggaaagcaac aatgaaaaga ggtacgtgcc attgggtttc ccgaaaacca ggggtctcga 660
tgttgacaac agaggattcc tcaacggcga ctggctgtct cggctatttt cagtgagtgc 720
ttaaaaaaag atgagagggt taaattaaac aaattttctg ccttaccaaa actgacagta 780
atgtagcttt ctaggcaact aaaggctaag ccagcagctc ccagcctgtg gactgtagtt 840
tttgcagggt ccacgaaccc aaatgcacac caagcactgt ctggataccc agagaaaata 900
aaatgtcccc cacaccaagt gtgccttttc ccagaggatg gtggagactg ttgtaattaa 960
caacatacac attcatagaa ggacactgct aatactgatt tggaaaaaat gtatgtagtg 1020
aaatcccat ttgtaaaact gaaatatatc catgcacaca taaagtactc tagaaataaa 1080
tacactaaat ctcaaaaaaa 1100

```

<210> 1413

<211> 563

<212> DNA

<213> Homo sapiens

<400> 1413

```

tttacatgtt cctccagtgt tgagaaaaac ctaatgccyt tttttgtgtt aagtttacct 60
attaatttta attttttag agatagaact tagatgacgg atttaacctt gaagtaggtt 120
tgtattttta aatctatttg ctttgattac cacagacagt gattgaggta gatgggcact 180
atctggctgc ttatatgaag gttttgaaac cattctgtta atccttttaa caaatgggta 240
tctgtccttt tctatcttat aataaaagat tgaagatatg acttagtatg ctcatgttac 300
tgtttgctta gagatgggag gctattttta tttttcatgc tgttctaaat catgaaagaa 360
taggtaactt tgtactcatt tcttaattta aatttaagaa gcactttag attttttgta 420
ttggtatttc agatccctat tgagtttttt aactgaagtc ggagcaaatg aattgagcat 480

```

884

tctgagtact tggctaataca agtgatgaag aggtagtaat atgaattctg ggacctaggg 540
 atagatgacc tgattctgtt ctc 563

<210> 1414
 <211> 583
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<400> 1414
 ntnantaagg gaacaaaagc tgggggtcca ccgcggtgac gaccgctcta gaactagtgg 60
 atcccccggt ctgcaggaat tcggcacgag catataaatt atcttaatga tctaggtatt 120
 ttgttagggg aatacatata gtcaggatag gataagaggg gaagtaatga gtgggtttact 180
 aaatatataa gacaaacatt tcaagtaaaa atttcaggag aaaatttttt tttaggtttc 240
 taagaaatat atttgtggat gtggaatttt tctgycagat gacgtaagag caaagttgaa 300
 gatagctaata acytggggat tcatakggag gtaatttttt atttaaaatg agcaagaagg 360
 accctagcct tttattgtgg tcttggaac tcattcccca ccagtatcat tccttgaaga 420
 aatgggttgg tctaggtctg gggcaggaaa tatatgrgat aagctgaaac atcttgacta 480
 tcagcaaaga ttttatcaaa cgatgctagg gttgtgtcag aaggactcag cagccaactg 540
 aagacgttcc cactggccaa aatagggcac attgagtatc tgt 583

<210> 1415
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 1415
 ggtactctgt taaaattcct gtgtaaaactg ggacttttct tttcactttc ytgtgtttca 60
 agaacagtag gtgttccagg gcttttgtcc tgctgggtac aagcaagtag gattttgaga 120
 aggtgtgagg aggaggtcag aaaaattggt ggaaatagga aagagaaaga aatatggccc 180
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 gtgtgttatt ttttctaaga ggtgcctcaa gatggataat ggaagatttg gagtacgatt 360
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<210> 1416
 <211> 513

885

<212> DNA
 <213> Homo sapiens

<220>
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 <222> (435)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (473)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (498)
 <223> n equals a,t,g, or c

<400> 1416
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 ctgcttctgt agttgtaaaa tgagagttat agcagcacct accacctaag attttgaggt 180
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 taataaatta actcttgga cttttgccc atgtttaattt gaaaaattga aaataaatgg 420
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<210> 1417
 <211> 442
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (24)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (42)
 <223> n equals a,t,g, or c

<400> 1417
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 ttttattatt ttaactcttc tccttaggac acgcagcccc caatttkctc ctccggcctg 180
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 cgtgtgcaag gaggtccagc cgccgcgccc gctaccggga gtctgaggac gggtgtccag 300
 ggacggagag gcaggtgaga gggaggtggc taagctggst atggtgacag gacgatgttg 360

886

gccagaaaga gtatcatccc ggaggagtat gtgctggcgc gcatcgccgc agagaacctg 420
cgcaagcgcg catccgagac cg 442

<210> 1418

<211> 929

<212> DNA

<213> Homo sapiens

<400> 1418

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tagtttttag tctgtgtagt taatttaatt tgcagtttgt gcggcagatt gctctgcaa 180
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ctaaaaaaaa aaaaaaaaaa aataacgtt 929

<210> 1419

<211> 244

<212> DNA

<213> Homo sapiens

<400> 1419

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cacccttggt gcggaagaat tgcaccagct cggctattca ctggcgctgg gtcgcgaata 180
gttaatgaaa gtagccggat gggattacct gatgaattca ctytacaacg sgaattcgag 240
cgcg 244

<210> 1420

<211> 172

<212> DNA

<213> Homo sapiens

<400> 1420

cagcaattcg gcagggacgg gtcgccggct gcttacgtgg gcgggcctag tgtggggctg 60
aggggtgcggg tcgctatggc ggtggacatc acgctgctat tccgggccag cgtcaagacc 120
gtgaagacrc ggaacaagcg ctgggagtgg cgggtggcga cggggtcgat gg 172

<210> 1421

<211> 2293

<212> DNA

887

<213> Homo sapiens

<400> 1421

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aatcaacaag tgaatgatgc ttcaaataat acattttaaat acattaatca aatttttttca 180
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<210> 1422

<211> 1660

<212> DNA

<213> Homo sapiens

<400> 1422

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888

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cctggccggg aggcggcggg tctcgatcgc gcgggcctcc ctggaggggc gcgggctctg 180
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<210> 1423

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<400> 1423

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ggcagagttg acaccagca gtaagctaac agtggacaca gatactctga ctccttckag 60
caccctttgt gaaaacagtg tctcagaact actgacacca gccaaagcgg agtgnagcng 120
acatcctaac tctgacttct ttggrcagga gggagaaacc cagtttggat tccccaatgc 180
agcaggaaac catggttctc agaaagaaaag aaatcttatc actgtgactg gcagctcatt 240
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<210> 1424

889

<211> 3106

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3075)

<223> n equals a,t,g, or c

<400> 1424

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aattccaatg atgtctttgt cctcaagacc cagtcttgct gctatctatg gtgtgggaag 180
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aaggccccct atgccaacac caagagacta caggaagaaa acctggatcat ccccccccg 360
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caggatgact tggaagagga tgatgtgttc ctactagatg tctgggacca ggtcttcttc 480
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890

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<210> 1425

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<400> 1425

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gaaatgggtgg acgctcatga actgtgtatg tggtttttgt annatctgtc tgtcttgggc 300
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<210> 1426

891

<211> 1967

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1956)

<223> n equals a,t,g, or c

<400> 1426

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tctgcacctc catccttgat ctgtttagca atgctgtttt tgctgttagt cgggttagag 1860
ttggctctac gcgaggtttg ttaataaaaag tttgttaaaa gttaaaaaaa aaaaaaaaaa 1920
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaancccc gggggggg 1967
```

<210> 1427

<211> 879

<212> DNA

<213> Homo sapiens

<400> 1427

```
attccccacc cgagcacctc cacaccggtt cctcctcca tataatcttc tagagatctt 60
```

892

```

aaccagtttc tatcccttac ctgcttttct cttctcttct cctgctccgt tcctcatcca 120
cccccccca tctggaccat aatagacacc aaaacaaacc caaattggta aaaagaataa 180
tcaaaaagaa gacattatcc ggtaagagt ctgtgctggt tgccaccaa gagagaacag 240
ttgtccagga tgctggctgg tggaacaacc tgctggcccg aaacaaggct gccagggtgtg 300
gatacctgag aaggactact tggatatcaa tacttttgag atggctacag tcagctagct 360
ggacagccca tgctgactgg ggacatacac ttgcatcttt gttgaaagca gaagaagaca 420
gaccctttcc ccaccttcct tacctcctct tccccatta aggagctca tccaagcttg 480
tatttaactg aataaatgag tagacattgt ggacctcaca agattattta attcttaaga 540
tgtgtagacc ttgatggtag gtgtgacatg ttagtttttc ttacttgcatt ttatttaaga 600
cactgttaca gagatactgt tgtcaccttc tggggcacgg tctttgggga gaggggagtg 660
catttagact tatgtggaac tgtacaaatt gtgatgtggc tacatagaaa gccatgtgct 720
aagaataaac tccatttaaa aaacattaaa aatctaagat tcatgtgttt tctaagcttt 780
tcattaagaa aacaaaagtc ctctggattg agatacttga ccttgcattg aaaaaccttg 840
tagatagctt gagctggatt cacttggatt ctgacggct 879

```

<210> 1428

<211> 521

<212> DNA

<213> Homo sapiens

<400> 1428

```

ctgcgtccat ggccaccgct gcgactgagg agcccttccc ttttcacggt ctctgccga 60
agaaggagac cggagccgcc tccttcctct gccgctaccc ggagtatgat gggcgggggg 120
tgctcatcgc agtcctggac acgggggtcg acccgggggc tccgggcatg caggttacaa 180
ctgatggaaa accaaaaatc gttgatatca ttgatacaac aggaagtggc gatgtgaata 240
ctgctacaga agtagagcca aaggatgggtg agattgttgg ctttcagga agagtgttta 300
agattcctgc aagctggaca aatccctcag gcaaatatca tattggcata aaaaatggct 360
atgacttcta tcctaaggca ctcaaggaaa ggwtacagaa agaacggaag gaaaaaatct 420
gggaccctgt tcacagartg gcccttgcag aagcctgtag aawacaggaa grattttagt 480
ttgccaacaa cggctcttct caagcaaata aactaatcaa g 521

```

<210> 1429

<211> 306

<212> DNA

<213> Homo sapiens

<400> 1429

```

aagtcactgg gcttagctgg cctctgagcc tgtatgaact cttgttgctg aggcaaccat 60
ggacctgttg ctaggagata gctggggaag cccaaggccg cccagggcag agagaggaga 120
cgaagagttt gggacagtgg gggaggagat ggggaaggat gggatttctg ggtcccagag 180
cgggtgggat actcacgcac agcttcttca ctggtggggg gtggggcaca cattatttct 240
cactggctcat gatttacaag aagaaaaata aaactgcttt tggaacccaa aaaaaaaaaa 300
aaaaaa 306

```

<210> 1430

<211> 745

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

893

<222> (470)

<223> n equals a,t,g, or c

<400> 1430

```

aaccacaagac aatgagctag ttttccttaa agtttgctga actattaagg aatatgttct 60
tatagctttt gactagaatg agtcatggga attctaaraa gggatggcct agacattttt 120
agctcagtta aattcagcat ttaatgcagg tgagttcctg ggtcgttttc caactagtct 180
ggaacagtct ggttctgact caaactggta taaagcatta ttttaggttt tctctttgcc 240
agtttttaag cagttataac catgtaaatc aagatgtgag gacatctata tgaagtatag 300
taaagaagtg gtgtcagcag atcaatatgt gtgtcctggg tgtgctgctc tcttaagtga 360
gactttgtga gactatactt taaatgcatt attaccattg cttacatttt gggggatttt 420
cttcctcctc aaaacttcca tttctattgt aatattctta atgacaatcn tttttttttt 480
ttagcagtgt atgtttgaaa cagccaaaga tggcgatgaa ccaagtgtaa attgatctaa 540
gcagcccatg cagtttgtgt tgaatcaaca aacagtgtat tgttgaagtg aaattatttt 600
ctgaaatgac ttgttagacc agttttgagg acatactcaa aagtagagta ataatggctc 660
ctgggatgga gaaatatgag atgaacctgg aacattctat tatggtgcc acaaggaaat 720
ctaaaaaaaa aaaaaaaaaa aaaag 745

```

<210> 1431

<211> 931

<212> DNA

<213> Homo sapiens

<400> 1431

```

cagccccaat gtccagcctc tttaacatct tctttcctat gccctctctg tggatcccta 60
ctgctggttt ctgccttctc catgctgaga acaaaatcac ctattcactg cttatgcagt 120
cggaagctcc agaagaacaa agagcccaat taccagaacc acattaagtc tccattgttt 180
tgccttgagg tttgagaaga gaattagaga ggtgaggatc tggattttcc tggactaaat 240
tccccttggg gaagacgaag ggatgctgca gttccaaaag agaaggactc ttccagagtc 300
atctacctga gtcccaaagc tccctgtcct gaaagccaca gacaatatgg tcccaaata 360
ctgactgcac cttctgtgcc tcagccgttc ttgacatcaa gaatcttctg ttccacatcc 420
acacagccaa tacaattagt caaaccactg ttattaacag atgtagcaac atgagaaacg 480
cttatgttac aggttacatg agagcaatca tgtaagtcta tatgacttca gaaatgttaa 540
aatagactaa cctctaacaa caaattaaaa gtgattgttt caaggatgat caattattga 600
tgacctattt tatttttcta taatgatcat atattacctt tgtaataaaa cattataayc 660
aaaacattct gtttaccttt tcagggctgt attgattggg gtgtagactg aactatccgg 720
ggtctgtttc ttttcgggtg tgaaagtctt gagaaggtag taatggataa gatgtgaggg 780
agaggagaga gggagatttg gagtgtaggg tgagtgtccc tcttcttaga actgaatact 840
cttcttctaa tgaacttgta ttcttgtttc catgtcttct tccctttcct tctatagcaa 900
ataaagcatt cactttgttt tggaaaaaaa a 931

```

<210> 1432

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

894

<220>
 <221> misc feature
 <222> (341)
 <223> n equals a,t,g, or c

<400> 1432
 aattaaattc tttgcaaaat tgaactttctc aactaaaacg tgtccatgtc agaatttttaa 60
 ctgttagcag gtagttttgtg gcaaagatgg ctataataatg aagcaaatta gaatctgcgt 120
 gtataactaat gagctgcctt ttttctgttg agactatcat tatttgcctt attacccaag 180
 aggcaattac ctgaatttgg atgtctgaat tataacttat gcaggaatag ttctgtaaat 240
 acattttaa aaactgtaaa gatattttaat aaatatagta tttatactaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa aaaaagggaac 360
 caaa 364

<210> 1433
 <211> 2593
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (180)
 <223> n equals a,t,g, or c

<400> 1433
 ccccggtttt aatgccattn aaaatttatg tttgagggtta ccacaacttg ttttaaaaag 60
 actttgtttt gtgaatttgt actgtatatt tgagtaactg tcaggccttt atttaaaatt 120
 gtttmacatg taccatgtac atgtcattac tataatttcaa tgcacatgc ttgtaacagn 180
 gcatttcatt tataataaga atgagttatt catttgtaag ccgttcagta atttatctac 240
 tattcctaaa ttggcataat gttagataat ctattttgaa tcacctttaa ttacatgtca 300
 gaatgcctta actaccctaa cttgacaaaa cagaatttctt tggtagacgc ggtgggggag 360
 ggggtgggggg tctggacgga gtctctatct aaggagaaat catcatgcta tgcataaaac 420
 acagaagcat gaggggcaag tggcggggta tttattttgc acaaactatt tgcagtctct 480
 gtgtattttaa aaagtaaaga aagttgcac cagaagggtt ttgttagaat gaatacattt 540
 atattaggac tgacaacttc agctcttttg tttagggttt caattatttt tggtaagagt 600
 atgtagcctt atgatctgga tatattttgc attcattttc caacgcctac atttaattcc 660
 tggtaagagc agtgctcgtc aagtttctgg tttttctctg ctctcattta acccgtaaaa 720
 cacaatcttt gtaaagctag attggtggtg ttttatacaa cttatttact cagcttacct 780
 ttttgagaaa cgattgttag aaattgacga tgtgtttgtt ccagtgtatc tgaaagtagt 840
 gggggcaaga attgagtttc acagtggaaat tggccttggga tctggcctat agattagtga 900
 cataaaatat tttctctatt tccccctgtt ctttttgtgt tatgcactta attttatgac 960
 tgccgggggg gtcagctgga gtgctgctta acaagtatct ctctactct cagtggctcag 1020
 aggctgtgtt ggacccatag tagaattttc caggtcacag acccaagctt ccatgggttg 1080
 ttactgtgct gtaccacttg gtgggtctga ttctgaacct gatgtgtgtg ttaattatat 1140
 ttttaagcaac acacacacac acacacgcct catgtaatgg actttttataa caaaagaaaa 1200
 aatttggatt tctaattttac aaatggcaaa ttattttatcc ctctctggat gcaccaaaaga 1260

895

```

ccagtaaagt ttatagcttt tccatctata ttataaaagc aatactgtat tataaaaaatc 1320
aatattttta tcacatgctt gaaattttta ttttgttgtt ttaaaatgtg cactctaaac 1380
atatcagaac cttattttctt cctatgaact taagctgcct gcgcacaaaa aaaaaaaaaa 1440
tttaccaaat ggagatgcag tagagtccat aggctctaaa aactaaaaga aatgggatgc 1500
agggggaaca agttatttgt cctgagttac tgtacttgct tgacatggtt gttgggtact 1560
aaatcacaaa agaatccatt ccaggatgac atgtctgggg gttgggctgt gtctagatta 1620
gaaactgggt ttcaagcttt gcatgatggg agagcgtcct ctctctatc agctgcgtgt 1680
gttctggata ggacagtagc ccggagatgg aaaccacctt cagtaccatt agcccaccat 1740
accaagtaac aagttaggca ggaatcgtgg gaatttattg agtcagcttt gagtgtttga 1800
gagaatgtaa acaagattgg ctgcaattgt aaacgtttgt actttggatg agttcatggt 1860
tctttaggtc accttaatac cagctatctt tggtagaagc tacagcattc agtttctctg 1920
gaaactgtat cacattttttg catttttaaaa attttacagt atcaaaaaaac caaaatctgc 1980
ttatgaaaaca aaacatgaag caggacatat ttggattcta tttattttaa attaaattct 2040
ttgcaaaaatt gaacttctca actaaaacgt gtccatgtca gaattttaac tgttagcagg 2100
tagtttgtgg caaagatggc taaataatga agcaaattag aatctgtgtg tatactaattg 2160
agctgctttt tttctgttga gactatcatt atttgtctta ttaccaaga ggcaattacc 2220
tgaatttggg tgtctgaatt ataacttatg caggaatagt tctgtaaata catttaaata 2280
aactgtaaag atatttaata aatatagtat ttatactaact ctgtgtgctt cttttgggtt 2340
gaatagtaac taaatgagac accagccctt gacattgagt ttgttggtca ctatcaggct 2400
ctcatttcca agcctcctag tcattctagc actgattata tgctgctact ttaactggct 2460
ccagctgctt cactacatca gtttagcttc ctcagaaatt catcaaaatg gacggacaat 2520
taaatgtaaa ttatagaact ttttcccagc tgaggctttg caccttccgt atagtataga 2580
gggaagctac aaa 2593

```

<210> 1434

<211> 1052

<212> DNA

<213> Homo sapiens

<400> 1434

```

ggtttttccc gggatacatc tgtgttgagt cactttgcat tcaacagtgc ctgcgccacca 60
aatcatata taagaggaaa actaggactg gaagaatatg ctgtctttta cccaccaaatt 120
ggtgttatcc cttttcatgg attttcaatg tatgttgac cactttgttt tctataccat 180
gaaccttcca aattgtatca gatattccgt gagatgtatg tgcgtttttt cttcagactc 240
cattccatct cttctcatcc ttctgggtatt gtgtcactct gtctgctgtt tgaaactctt 300
cttcaaaact atcttcccc aactctttat catctacgag aaattggggc tcaaccactt 360
cgcatatcat ttaagtggat ggttcgagct ttctctggat acttagctac agatcagctc 420
ttgcttttat gggatagaat cctaggatac aactctctgg aaattcttgc tgtgctggca 480
gctgccgtgt ttgctttccg agcagtgaac ctgatggagg tgacatcact ggctgcagct 540
gaaaatctag ctgcccacag tgaacagttc tgcactgtc ctctattccc tgagctttac 600
agagtccaga tcccattgtac tgctgaactc aggcagaaag aagagtgcag tttattggac 660
tccaaatctc attcaacaga acaaagaagt tgaggttgca aggaagaacc tataatgatg 720
ggtcatggaa tataacctag aaaagaagag aaataaaaaga gactgtgttt caccatgttg 780
cccaggctgg tctcgaactt ctgagctcaa gcaatccacc ctctcagcc tccagaagtg 840
ctgggattac aggcattgaga caccaagtcc agccataagg ttcttattct atatatacat 900
gaaatgatat cacttgaagg tagactgtga taagttaaatt acgtatatatt tttaaatctt 960
caaacaacca ctaaaataaa agaacaaaga gttacaacta aaaaaaaaaa aaaaaaaact 1020
cgtagggggg gacggcgtac ccaattacgc cc 1052

```

<210> 1435

<211> 665

896

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<400> 1435

```

ggcacgagcc gatagctgct tcgggattgg cgtccgggcg gctatctagg ggctgctggg 60
aagatggcgg actcgggtggc tagccgatga ggaggcccg ggagggaacc ggccccggg 120
ccccgagacc gactgaggga gcgacctgcg caggggcccg ggagtcatgg tctccatcac 180
ccaactccat gcttcgagtc ctgctctctg ctccagacct cctgctcgg ctgtctggcc 240
tgctgctgat cctccagta cagccctgct gtttggggcc cagcaaatgg ggggaccggc 300
ctgttgagg aggccccagt gcaggctcct tgcaaggact gcagcggctt ctggaacagg 360
cgaagagccc tggggagctg ctgcncctggc tggggccaraa cccagcaag gtgcgcgccc 420
amcaytactc ggtggcgctt cgtcgtctgg gccagctctt ggggtctcgg ccacggcccc 480
ctcctgtgga gcaggtcaca ctgcaggact tgagtcagct catcatccga aactgcccct 540
cctttgacat tcacaccatc cacgtgtgtc tgcacctgc agtcttactt ggctttccat 600
ytgatgggtcc cctggtgtgt gccctggaac aggagccaaa gcttcgcctc cttcgaagnc 660
acctt 665

```

<210> 1436

<211> 1104

<212> DNA

<213> Homo sapiens

<400> 1436

```

aaagatgggc aacttacggt cggactgggt ggctacctaa tgttggttaag agttcaacaa 60
tcaacrccat catgggcaac aagaaagtat ctgtgtctgc cacacctggc cacacraagc 120
actttcagac tctctatgtg ragcctggcc tctgcctgtg tgactgtcct ggcttggtga 180
tgccatcttt tgtgtctacc aaggcagaaa tgacttgag cggaatcctc ccaattgatc 240
agatgagaga tcatgttcct cctgtatcac tagtttgcca gaatattcca agacatgttt 300
tagragctac ctatggcatt aacatcataa cgcttagaga ggatgaagat cccaccgac 360
ctccaacatc ggaagaactg ttgacagctt atggatacat gcgaggattc atgacagcgc 420
atggacagcc agaccagcct cgatctgcgc gctacatcct gaaggactat gtcagtggta 480
agctgctgta ctgccatcct cctcctggaa gagatcctgt aacttttcag catcaacacc 540
agcgactcct agagaacaaa atgaacagt atgaaataaa aatgcagcta ggcagaaata 600
aaaaagcaaa gcagattgaa aatatcgttg acaaaacttt tttccatcaa gagaatgtga 660
gggctttgac caaaggagtc caggctgtga tgggttacaa gcccgggagt ggtgtagtga 720
ctgcatccac tgcgagctct gagaacgggg cggggaagcc ctggaaaaaa catggcaaca 780
gaaataaaaa agaaaaaagt cgtagactct acaagcacct ggatatgtga ggttgggctg 840
caacagaaat gtcactgtca ttgtgcagat ggaaaagagc agaagctgcc tgttgccctg 900
ggaactgtcc caagacacta gcactgtaga acgggcctg ctcttgacga gcacggctgc 960
acccaacagt ctccatgtca agaccaaggg cctcctggaa acaccaactc tgacaaaaag 1020
gagtcactct ggagcccgag aatcctactc ctggccgggc acagtggcac gcaccaacat 1080

```


897

ggagaaaccc cgtctytact aaaa

1104

<210> 1437

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<400> 1437

```

ccagggtgggt gccctgggtc ttggtgttgt gactggggga ggaggggtgt taggggctgg 60
gggtcacctt atattaacat gaactagagc acacccttgt catggctgga cccaacagta 120
agaggcaaac ccagggtgtc catgtcccta ggatgctcca gcctgctctg gggccacgag 180
tctcacatga ggactggccg cccttgtgtgta caggggcaag agggggccag gtcctgtgcc 240
tggccaggct gttagccgca gtacccacag agaccaccgc ctcctctgc tttccccgga 300
gaggggcttg gcttctagca gtcagagcag ggctnttcca aaaggttggg ccttgcccc 359

```

<210> 1438

<211> 409

<212> DNA

<213> Homo sapiens

<400> 1438

```

ggaggccgta cctccgagag gctcggcggt gagccgggta gggccagggt gctgcccttt 60
cacctagggt agtcccttgt cgcctccgct cttcgcccaa aaggggatgc agtccggga 120
aacaagtga ttcattggtat tttacttttt tgggaaatac trgaaatgaa gacctgcaac 180
tgtaatttgr aataaggaaa actttaattt tcrgtataaa aattgctcaa atagaattgc 240
ctgattttta tgacaaaagg tgaattatag tttaatgtac tgcaagtcct aaactacgga 300
tgggaactat tacagtttat aatgtcaaaa acttttctta gaccaaaggt atcttccaca 360
aagtatatgg gagtccacat ttatgtaaga aatgaaacta taaaatgta 409

```

<210> 1439

<211> 404

<212> DNA

<213> Homo sapiens

<400> 1439

```

gtgttgagag cgggtgtggca ggtgtttag cgcctatggt gaagttoctt ttgtagcggc 60
cccggctaga gagttgkyct gttccctgcc tttgtgacct ggagagcttt tgggaactgg 120
tttgtggcct gtttgattcc tgtcagaggt ttgctgacct aagacagtat cgaaaatgca 180
tattaagtca attattctag agggattcaa gtcctatgct cagaggaccg aagtcaatgg 240
ttttgacccc ctcttcaatg ctatcactgg cttaaatggg agtgggaaat ccaacatatt 300
ggactccatc tgctttttgc tgggcatctc caacctgtct caggttcggg cttctaaatt 360
tacaagattt tagttttaca aaaatggggc aggcttggtt tttt 404

```

<210> 1440

<211> 352

<212> DNA

898

<213> Homo sapiens

<400> 1440

```

aattcggcag agaaattata taaacctgtt gtctctcacc tctacattgg atcacatggg 60
cacctgcctc atggaaatgc cttttttaaa acttcgattt gcagaactcc actattttta 120
tacctagcta cagttttgag aaagaagaat cagaaccctg acccacttac ggttgctggg 180
acaattcccc ctcccgcacg tattgctgca gtgccagga cagtaaaatg gactacaagc 240
ggcgyttcct gcttgggcgg tccaagcaga aggtgcagca gcacagcaat acccgatgcc 300
tgagctgggc cgagcactga gtgtcccctg gcatccacgg ccaccaytgc cc 352

```

<210> 1441

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<400> 1441

```

ttcggcacga aggagactgt aaacaaagat atttgtgaaa agggaacaat tcagcaaattg 60
ataggaatct ttaaaaatat aataagcaag cctaattgaaa aggaagaagc cattgttttg 120
gaaatccagt ctgatataatt acttatccta tctggcsttt gtgagaatca cattcaaagg 180
aaggaaattt tcggaactga aggagtagat atygttcttc atgtgatgaa aacagacccc 240
aggaagttag agagtggctt aggctataat gtacttcttt ttagtacatt ggacagcatt 300
tggtgctgta ttttgggatg ttatccctca gaggattatt ttcttgaaaa ggaaggcatt 360
tttctccttt tggatttggt agcattgaac caaaaaaatt ctgtaattca atacttgagg 420
ataatggttg aattttgtga ataatcccaa aactgcagct catgtcaatg cttggcaagg 480
gaagaaggat cagacagctg ctagtctttt aatttaaatt gtggaggaaa ggaggaaaaa 540
gaactaggng taaaacg 557

```

<210> 1442

<211> 568

<212> DNA

<213> Homo sapiens

<400> 1442

```

tcaatgttcc attttgcttt taaaagcttc acaagaacat ttcatttatt aaaatagttt 60
ctgtaaactc tttcagaata acaaaattca cttgccttgc ttaaacagca tttcaagtag 120
aagtattttt atttcaaggc accataaaat gatgatctct ctaagaaata cctctccttc 180
cgtgtgtgaa aatccttggt ggaaaaaaaaa tcccacacgg tgttcttggt catcaggatc 240
atgaaaacaa actttggtga atgtgagcaa ctgcgcagga caggacacag gttacagggc 300
ctgacgtcac taacggtaac tgacaatctt ggaatggacc ctactgctga tgtttcaaaa 360
ggacacagag gtgaactggt cacttctaata taagaagagc cagtgggggt ggggaagctg 420
aaaacaaaaa atccacgtag acatacgtgg cagtgtgaac gtctgtcttc cccttccttc 480
tcctcacttc ctctcctcct cctcactcag gctgggtatt tcctgggtgt cggtatgcag 540
cttgccttgc agaagcctct gccgaatt 568

```

<210> 1443

<211> 654

899

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (106)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (156)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (547)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (549)
 <223> n equals a,t,g, or c

<400> 1443
 cctcataagg gnncaaagct ggagctccac cgcggtggcg gccgctctag aactagtgga 60
 tcccccgggc tgcaggaatt cggcacgagg tttgcttcaa aagggnata ttatactctc 120
 tctagtaatc caaaggtatt cctaattttg ccactnctca ttttcgcttc tctttaaggg 180
 ccttatagta tggttctaatt tctcatttgg tagtatgcaa cattcaatat ttctagctct 240
 aaagttccat cattaattat ttcttttttt cttttttttt tctttttttg agactccatc 300
 tcaaaaaaaaa aaaaaaagca aaattggttg catctctaag acagagcaag actccctctc 360
 taagagatag tagtgtctcc cacttaattg aattcgtttt gttttggttg ctttgctttg 420
 attcttgcca cgtaaaatct gtgggtcttg accagagatt tgctcagaca gttaaggaaa 480
 aataatgaag atgtatttgt gaaattttta cataatgaaa aatgagatgt atttgtgaaa 540
 attttangna taaacctctt tataaaatac gtttgtaaaa tataaaagag gtaggatgtt 600
 ttgggctaaa tttagccaca ttctgggggc catacacaca cacacacaaa cagg 654

<210> 1444
 <211> 899
 <212> DNA
 <213> Homo sapiens

900

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<400> 1444

```

gtcttattga actggataat ccaatattat ggatacaatg tcatacagta ttatggaggc 60
atatgtgtaa ttatcantat aaataatact ggagaaattt ccggacgtca gaagtcggaa 120
atggctctca ctgagttcaa atcaagggtg tgggaaggct ccactccttt ggggggctgt 180
ggaggaggat ccatttcctt gccttcccca acttatggac tctgcattcc ctggcttgtg 240
gccccttcct ccattctcaa agccagcagc gtagttcttc ccattctcct catattcctc 300
taacgctgac ctgccttcct cttacgaaga ccctggcatg acatcggcc accagataat 360
ccagcctgag caacagagcg agactttgtc tcagaaaaaa aaaaatcagc ttataataag 420
tgccataaag aaaataaaac tgggagacat gnaagagact gactagggtg gtagtctaac 480
agatggggca gtcaggaagt cttycctgag gaggtgacat ctgagctgag atctgaatga 540
aggataggat ccasccacag attgatctgg gggagaggca ttctaggcag aagacgtggc 600
tagtgcaaag gtcctgaggt aggaatgcac ttggcatgtt caaagaacac agagtcggtg 660
tggctggagc agagcaagtg aggaagagga ctgggagatg aatcaggaag gtgccggggc 720
ttgtaggctc agatgaggaa tttgaggact cttggtgctg agggaagaac gtgaaggaga 780
tgattgatca gggctgactt ctccggagaa ccactgggct ggtatggagg cagcatgaga 840
ttccgagtgg tcaactcaga ggcgagaatc agcaacccca gcatcaactt cagttcgtt 899

```

<210> 1445

<211> 365

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<400> 1445

```

ggcacgagca gagatagggt ttttggaggg ctctctctggg aaatggcccg acagcattct 60
naggttgtgc atgaccagca gatactatcc tggttggtgtg ccctgggggtg ccatggctgc 120
tattcgctgt agattaggct acataaaatg ggctgagggt acctgtttgg ggagatgggg 180
tggcctgcag tgacacagaa aggaagaaac tagcgggtgtt cttttaggcg ttttctggct 240
tgacggcttc tctctttttt taaatcacc ccaccacata aatctcaa cctatgttgc 300
tacaaggggt catccatcat ttcccaagca gacggaatgc ctnatttaat tgaaagttag 360
tgttc

```

365

901

<210> 1446
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<400> 1446
aaaaaaagaa aaaagaaatt tgtgaagttc tactgctcta gttatgcagg gtggcaggat 60
ggcattggta aattgacttg aagtgagaaa aaataatttc tggttttatt ctaagtattt 120
aaaactgtaa attcataacc atgattcatg attttgnatt acaagtctta tgaattctta 180
gaacttcaga agtggccggg tgtggtggct cacactgtaa atcctggcac tttgggaggc 240
caaggtaggc ggaccacctg aggtccagaa gtttgagacc agcctggcca tcgtggtgga 300
aaccctcatc ttctacttaa ggnatacaaa aacttaattn gggatttggt ggtggcacat 360
gcccgtaaat ccccgag 376

<210> 1447
<211> 303
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<400> 1447
aatcggcag agctgagatg aggaagtata tatttgggta tcatttttac atcctgttga 60
aagctccagg aagagtgggc caattctaag ctgttcattt acagagaagt tgctctcacc 120
tttctcttc cttctaaatg aactttggag ccctgatctt ctttgtaagg gacaaccaga 180
ccctccttc atgcattccc cttcagagtc gctgctagtt gcctggctcg agtgragtgg 240
catttttgaa ttttgccgc ttcagctgtc ttgggggcct nggggcgggc tcccacctct 300
ttt 303

<210> 1448
<211> 525
<212> DNA
<213> Homo sapiens

902

<220>
<221> misc feature
<222> (511)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<400> 1448
ggcacgaggg cgtgagcact gcacccagcc aaaaatttta catcttttat agagggaaaa 60
aaactcttta taccatggca aggccttttc tttcacaaaa agctgggcct actgaacaat 120
tcaagctgtg cagtagtaga ctgaaagcag gatttggtga ggagttacag ctctgtcca 180
gagcaaatcc tgtagtgata caaggagaat gttaaacttg cagcttagac agggatcagt 240
cctgagactg ctggcagtag caaatggcta ttagagtaac tgtataatgg ttttgctgc 300
actttctcta tgtatataca aatgtacatg tataaatata aaaattaagk gatcatgggt 360
cttggttaacc tgtcccaagt gctgkgattc acacgcctga cactaaaagg ttcttctctg 420
tccagtcagc cagctgtrac caccagcagc acagctgagt gctgagaatc tggctggaaa 480
ragaaatgtg gctcaagtgc tggctcacct nctagctgtg tnggg 525

<210> 1449
<211> 619
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<400> 1449
ttaccattgg aatttaattt aagacaaatt tagtgtgaac agtgaattta ttttaagacaa 60
anccttaaag atttgtagaa taatgacctt agttttttca tgatggggccc ttaccacaaa 120
aacctgcttt ggcatttggg taaccagac ctcatgctgg gttaaagtat atagatataa 180
cagtaattca gatttaaatgc atatcttggg ttgggactga ctgaggaacc tcttgtttta 240
aagtgatttg tagtataatc ataacgtttg atccttttgg gtaaaatagt agctgacaaa 300
aaataaatac aaattaattt tcatgctcat ctttacctga aagactcaga tttctcttta 360
agccagctca ggaatattag gctaaaccca gctgttttgc agatgttctt actcagattg 420
aaacatcaat taattaacag gtatctattc atatttaact agaaccctgc taatgtagag 480
aaataatact tttttaggag atcttttttc agttctctct aaaatgtcat tttatataaa 540
tttctcttat atttttataa gattgtatac taggattgag gatgtatagg tacatatatta 600
taggatgcta tcaatttgg 619

<210> 1450
<211> 316
<212> DNA
<213> Homo sapiens

<220>

903

<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<400> 1450
ccntgnagta gctgggacta caggcacacg ccaccatgcc cagctcattt ttgtattttt 60
agtagagatg gggtttcacc atgttgGCCa ggatggctcc atctcttgac cttgtgatcc 120
gcccgactcg gcctcccaaa atgctgggat tacaggcgtr agcatncaag tctggcgaga 180
garattgttt ctagatgagg gtgggggcgg gtgtccttag cccaaagctt gtgccagtct 240
ctatcagaaa taaatgcccc caaaacctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaa 316

<210> 1451
<211> 365
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<400> 1451
ctcaaatgaa ggtttgcagt ctgtctaata aaaggatggg gcgtantgcn taaaatcaaa 60
agatttgta aaacaaaggt acttatttgc aaaagctggc taccctctaa gaaggctca 120
gtctttacca accaccttat tgagcccagt aagggttgtn tcctctgtca atgttcgatt 180

904

```

atctccagga aaagagacca gatgcagccc accttccttc acctataagt acacacctga 240
agaggagcag gaattggaaa agcgggtgat ggaacatgat ggtcagtctt tagttaaatc 300
gaccattttc atctctccat catctgtgaa gaaagaagaa gccccccaga gtnaggcgcc 360
gcggg                                           365

```

<210> 1452

<211> 770

<212> DNA

<213> Homo sapiens

<400> 1452

```

caagtcgaac ggtaacagga agaagcttgc ttctttgctg acgagtggcg gacgggtgag 60
taatgtctgg gaaactgcct gatggagggg gataactact ggaaacggta gctaataccg 120
cataacgtcg caagaccaa gagggggacc ttcgggcctc ttgccatcgg atgtgcccg 180
atgggattar ctwgtwgggtg gggtaacggc tcaccwaggc gacgatccct agctgggtctg 240
agaggatgac cagccacact ggaactgaga cacgggtccag actcctacgg gagggccagca 300
gtgggggaata ttgcacaatg ggcgcaactg atgcagccat gccgcgtgta tgaagaaggc 360
cttcgggttg taaagtactt tcagcgggga ggaagggagt aaagttaata cctttgctca 420
ttgacgttac ccgcagaaga agcaccggct aactccgtgc cagcagccgc ggtaatacgg 480
aggggtgcaag ckttaatcgg aattactggg cgtaaagcgc acgcaggcgg tttgttaagt 540
cagatgtgaa atccccgggc tcaacctggg aactgcatct gatactggca agcttgagtc 600
tcgtagaggg ggtagaattc caggtgtagc ggtgaaatgc gtaragatct gggaggaata 660
ccggtggcga agcggccccc tggacgaaga ctgacgtca ggtgcgaaac gtggggggagc 720
aaacaggatt tagataccct gggtattcca cgccgttaaa cgatgttcga 770

```

<210> 1453

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 1453

```

agcctttctg ctctgaact aaaatcccta gccaaagacct tccacttggt gaatcccaat 60
ggacagaaac agcagctggt ggacgccttt ctcaaattgg ccaaacagcg ttcagtctgc 120
acttggggca agaataagcc tggaattggg gcagtgattt taaaaagggt ttgttggcta 180
ttgttacagt aaaaacattt aaaatgttga tagcacatat taacttacag tagrttgat 240
ayttgattga actgtaattg tttatttcag ttgtagttag attgagaagg ctggaaaagc 300

```


905

```
cttaattgca atagcckgga ttctttcttg ggttattatt caaaatTTTT gtcgtaatac 360
cgtactaatt tccmggacca agaaaaatcg garggcaata ggccttttgg aaattgtagt 420
atTTTTatTTT cccgagaaaa atacagtTTT aagtgatcct tatgggattt ttaagggttaa 480
ctatttagtc ccaatTTTTa ttttagtTTT ggtttactna aacnaattat atccggcgtc 540
cttaagttgc aatttttncce cg 562
```

<210> 1454

<211> 1767

<212> DNA

<213> Homo sapiens

<400> 1454

```
aggccaagca tgcaggcagg cttgtaacaa actccttggc caggagctct gagaattagc 60
ttcacttccc tcagaaatgc cccaattccc tcctggaaga ggagctgtgt gacastcagg 120
ccaggggggtc gggactcccc ccatctcctc cgcacacaca tacccttgca cacataccca 180
gccacgtaca gctgggtggc tgtasgcaag tcatttttct actctgagcc tcagggtctt 240
cctctgtcca cctcccccca ggattamtgg cagaattagg tgtgagcttg catttaaaaa 300
gaggtttgtt ttgtaaaacc aggccttgca aattggcagc ccaagtctca ggggcctgtg 360
cagtgaactga tcattaccaa catttcgaag tgagagatgt cacataaaga gcgtcatttc 420
gagcttctct tgaaaagttg taaggtgagc taccctggga ctgtattcct gaatggcaat 480
gtgatggcag agtcctgcag tattaccacc tgwggaactt tgcaccagg tcccaccac 540
ccacttcagg cccttggttc agggatgtgc ccgatcatgga aatamcagg gctgtgggtc 600
tgctggtttt ggctttcctt ctctgtaacc ttccaatc tttctcctc cagggtactgt 660
aaaccactta gtaattaatt agttaataaa ttcatctcat cagcactttt aaataatgtg 720
ctaggccaca ctgtcatgga cccagatat acagcagcaa acaaagcagc catggtacct 780
tccctcaggg agcagtcagt ccagtggagg agtcagatat gactcaccac acagatcgaa 840
aaatctycac aaattatgag aagaatgctg agggaagaaa gaacataggt ggaccgctgc 900
tgagtccagg cttacttgca gagatctatg ctggccaggc cctgtgctag gcagcagagg 960
acatggaata aaatcaaata aggtcactgt gtgcaggact cacggtgtgg taaaggagca 1020
gccccatcca caggttctat taattccagc ctgtgagaat tggaaccaca ggggtgaattt 1080
tgaggagacag gcacttacac taatctggaa gcataatata taaagagtac ctacaaatca 1140
ataaaaaaaaa tagaaaaaaaa aagagcaaaag tatatgaaca gaaaattcaa tgaaaaggaa 1200
atagaaatgg ctcttaaattg aatgaaaaca tactctcact cararaaatg aaaatttaac 1260
ccatgtcaar atacttgggg tgaaggaagt gttttaaaat tcgattgtgg tgatggttat 1320
aaccctataa atttactaaa acttattgaa gtgtaccttt aaaacaaatg aactttatag 1380
tatgtcagtt atatcacaat aaggctatTT taaaaataaa aacactttga gataccattt 1440
tatacctgtt ggtattagca aatgtcaaaa cactggataa tgcattatgt tcctaaaggc 1500
atgggggaga cggcctgggg caagcgtcca ctgatgcatt cttgggttgg ggtgggcaac 1560
aggacgctgt caaacatata aatacattta cgctytgagc tgggaattcc actcatagga 1620
cttcatctga tatatatgct ttacatctga aaaatgtata aggaaattca ccacagcctc 1680
atagattatg gcaaaagttt ggaaacaaaa gatgtttgtc tacagggtgaa argttatgcc 1740
actgtcaaaa aaaaaaaaaa gtcgagc 1767
```

<210> 1455

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (112)

906

<223> n equals a,t,g, or c

<400> 1455

```

gtttttgttg ctccgttcct gaggtgacac ccggttcacc ccacgtgtta aaccccgagc 60
cgcggggctgc cctgtgctgg atattgccta catccagcag ccctctgagg gnatggtttc 120
tggcctgcct ccgttgccag ggtcctcact ggtgtgacca accatytggc ttttaacact 180
aaaaagcccc acatcctgag gaatcccagg acacagaaag tcctgggttt tgtcagtgat 240
gcagaagggtt ggggtggaaag tatgaaaccc acacagaggg atgacagcac catttgtagc 300
atcggaatgga aatggcgtgg atgatctgcc tcgagtggtc actgtcgcca tgttgccctga 360
cgtggatgct ggcacagga cttgtgatcc accatggatc 400

```

<210> 1456

<211> 1012

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 1456

```

tntgtggcag aaaaatatgt tttccaggta gtttttacta ctacagagag tctgtaaata 60
agtgccttaa aaaaataaca aaccaataag atatttgtyt cctatataaa cattctgtgt 120
atttagcact tggaaaatca acaaatccag aatttaaaaa aatgccacag acttttcaaa 180
gcccaactgt acttttttga gaattgtccg tacctactaa tatgccttat tcttcttcac 240
ctagtgtttt aaaagtcctg ggtagaaaga gtttttagaaa tgtaatcagt tgttcagctt 300
caataatata gagatctaac atagtcagtc ctcaggcccc ctaaagaaac aagcaagaaa 360
gtgagggcca tcactagggt tggccttggg gaggggaaaa ctaaggactg cttttgcaa 420
atgatatttt tgataatgta aggaaacaca gggaccacaa aacctttttt tttttttaag 480
tgtgaaagat tagtgccctt tggcatactt ttgattttag aggatatagt atcggcattg 540
acaaatcacg tagaaacaaa gaatgctata gtgacaaca gtattaaatg ttactcctga 600
ttctgcagaa cagcttttga agatactggg gggatatctc aagcctcaga gcagcttggt 660
tcagatagaa attctctatg ggttgaaatg ccaaaaacag aaaacatgat gttgactcat 720
gtaatttagt ccatttttagc agagccttta gtgtaaacac cagtggcgag gagcattgca 780
tattctctgt cagcagcagc actcccacac caggtgggtc tgggctctct gtaggctggt 840
cctagtaggc gacaccagc aacaccctg ttggacagga ttgattgttc gcagctcttag 900
accaacactt cagtcagaaa tgttactggg aggaggaaa gaaaatactt ttttctctcc 960
atgtggaaat gaggagagag gaaagtggat tggaaaacca aaatgtgagt ca 1012

```

<210> 1457

<211> 637

<212> DNA

<213> Homo sapiens

<400> 1457

```

ggttttcatt gacactcttc cctcctccca cctgccacca ggcctcacca aagccactg 60
ccatggggcc atctgggcca ttcagagact ggagtgagat ttgggtgtgg agggggaggc 120
gccaaggtgg aggagcttcc cactccagga ctggtgatga aaggacaga ttgaggagga 180
agtgggctct gaggtgcag ggctggaagt ccttgccac ttccactct cctgccccaa 240
tctatctagt acttcccagg caaataggcc ctttgaggc tcctgagtgc cctcagatgg 300

```

907

```

tcaaaaccca gttttccctc tgggagccta aaccaggctg catcggaggc caggacccgg 360
atcattcaact gtgataccct gccctccaga ggggtgcgctc agagacacgg gcaagcatgc 420
ctcttccctt ccctggagag aaagtgtgtg atttctctcc cacctccttc cccccaccag 480
acctttgctg ggcctaaagg tcttggccat ggggacgccc tcagtctagg gatctggcca 540
cagactccct cctgtgaacc aacacagaca cccaagcaga gcaatcagtt agtgaattga 600
atggaaataa acgcttttagt tataaaaaaa aaaaaaa 637

```

<210> 1458

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (539)

<223> n equals a,t,g, or c

<400> 1458

```

cnaccctcac taagggacaa agctggngct ccaccgcggt ggcggccgct ctagaactag 60
tggatcccc gggctgcagg aattcggcac gagtcttttc agactcagcc cacttgcacc 120
caagtraatt aacagccttg ttgctcacac aaagcctgtt taggtggtct tctataygga 180
catgcktgac acttggtgcc aaaatctggg ccagggggac tccttygtga gaccggcccc 240
ctgtcctggc cctcaytccg tgaagagatc cacctgcgac ctcggtctct cagaccagcc 300
caaggaacat ctcaccaatt tcaaatecga tctcctcggc ttagtggctg aagactgatg 360
ctgccccgat gcctcagaag ccccytggac catcacagat gccgagcttc gggtramctt 420
tacgggtggag gattcccagc catatgaaga camcttagyt ggacgwcat ccttgtcaaa 480
agtctgaccc ytcaaaytyt acagcytcaa tgggaccaga cctaccggtc atttttagna 540
ca 542

```

<210> 1459

<211> 531

<212> DNA

<213> Homo sapiens

<400> 1459

```

atatccgact cactataggg aaagctggta cgctgcagg taccgggtccg gaattccccg 60
gtcgacccac gcgtccggaa tcttaggcct aagattcttc atgtaaaaat tataagactg 120
aataaagaat cttaggccta ggaggagaaa atgattttct ttctattacc taactagatt 180
ggggcatatt tctgataaag acccacctct agtgagattc atcttttttg tttgtgtgac 240
tatattccat agagaagaaa gatgggatag ctcaacttca ttatatacca aagcaaaaaca 300
catgccaaat gatgactaca ttttaccac atatttagac gagtattctt gactagtgtt 360

```

908

tactatctat acccccaaaa ctactactat atagacagaa tggaaaagtat ttctatttgt 420
 ccttttttttg ttttctgttc taattgtcag ggacatatgt agtgggtata ggtttactta 480
 aaaggaataa atttggaatg ctcmaaaaaa aaaaaaaaaa aaaaaaaaaa a 531

<210> 1460

<211> 607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<400> 1460

tattcacgtc cccaggtc tttctcagcc tcaggaggaa ttagaagggtc ttcattctatg 60
 tcttatgttg atggcttcat agggacatgg cccaaagaga aaagatcatc agtgcattggc 120
 gtatcatttg atatttcttt tgataaagaa gatagtgtac agagatccac tccaaaccga 180
 ggaatcactc gttctattag taatgaagga cttactctga acaacagtca tgtatctaaa 240
 cacattagga aaaatttggtc cttcaagcca ataaatggag aagaggaagc agagagcatt 300
 gaagaagaac ttaatataga ttctcacagt gacctcaaat cttgtgtgcc ccttaacaca 360
 aatgaactaa attctaata gaattattcat tacaagcttc caaatggagc tttacaaaat 420
 agaatacttc ttgacgagtt tggcaatcag atcgagacac caagcattga agaagcatta 480
 caaataattc atgatactgn naaatctcct catacacctc agccagacca aattgctaata 540
 ggcttctttc ttcattagtc aggaatgagt atcttaaatt canatatcaa gttaaatcaa 600
 tctagtc 607

<210> 1461

<211> 121

<212> DNA

<213> Homo sapiens

<400> 1461

caggaaggat aagccatgtg gggctctagaa ctgagggtc tagacttcca gccagtgct 60
 ctctctgctc taccatgttg cctctagttg gagagacagg gcagaagtga tggtaaagaa 120
 g 121

<210> 1462

<211> 706

<212> DNA

<213> Homo sapiens

909

<220>
<221> misc feature
<222> (682)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (699)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (702)
<223> n equals a,t,g, or c

<400> 1462
gctgtcacag gccatggatg ctccatggag ggggtggtgag catatgaata acaatcaaga 60
gaaacatcgg taatggacag gaggcacaa taaacaatgt ccaccctcct ctaaaaccca 120
ggaaagtctt cattcaaaag acgatgtctt gaaggaaacm taggtacaaa tctttgtgay 180
tttgatttag acatttttta agtaggcaca aacaaccgaa aaatagataa atggacttca 240
ttaaaataaa aaacttgtat gcttcaaagg acactgtcaa ggaagtgaaa agataatcca 300
cataatggga gaactatttc caaattgtat gtttgacaca ggtctagtag ctagagtrta 360
taaggaattc atataactga gcaataaacg acaaccacat ttaacaatgg ggaaaaaaag 420
ctgtgagtag aggtttctct aaaggaaaca cacaatggc caagaagcac atgcaaagat 480
gttcaatgtt ttctgtcatt aggaaaaatg aaatttaaac caaatgaga taccacttca 540
maccagcag tatgacttaa gaaaaaaatw aagacmacac atgtttcaaa agtgatggag 600
aatatggaat tctcatatat tactattggg gaatctaaaa tgatrtagct ctgaagttag 660
taaacagtgt gtgagttcct tnaaaaagtg aaaccttana gnggcc 706

<210> 1463
<211> 1765
<212> DNA
<213> Homo sapiens

<400> 1463
gagaaaacaa ttctgaccgg agaatgctgt tacctgaacc ccttacttcg aaggatcata 60
agattcacag ggggtgtttgc atttggactt tttgctactg acatttttgt aaacgccgga 120
caagtgggtca ctgggcactt aacgccatac ttcttgactg tgtgcaagcc aaactacacc 180
agtgcagact gcyaagcgca ccaccagttt ataaacaatg ggaacatttg tactggggac 240
cgggaagtra tagaaaaggc tcggagatcc tttccctcca aacacgstgc tctgagcatt 300
tactccgcct tatatgccac gatgtatatt acaagcaca tcaagacgar gagcagtcga 360
ctggccaagc cgggtgctgtg cctcggaact ctytgacacag ccttcctgac aggcctcaac 420
cgggtctctg agtatcgga ccactgctcg gacgtgattg ctgggttcat cctgggcact 480
gcagtggccc tgtttctggg aatgtgtgtg gttcataact ttaaagggaac gcaaggatct 540
ccttccaaac ccaagcctga ggatccccgt ggagtacccc taatggcttt cccaaggata 600
gaaagccctc tggaaacctt aagtgcacag aatcactctg cgtccatgac cgaagttacc 660
tgagacgact gatgtgtcac aagctgtttt ttaaaatcat cttccaattc tatacttcaa 720
aacacacagt tgctcaatgt caaactgtga tgacaaatat tacgtttatc tagttagaag 780
ctaattgttt gtacattttt tgtatgagga agtgatgtag cttgccctga tttttttttt 840
tttttttttg gtcagcttta atatatttat gccagaattt taaaaccaac aaaattttct 900

910

```
tgttcaagcg tgcattgaag aaccacattt attcaatggt tgaagtgtgt ttgtgatatt 960
tgtacacaaa ttttcttttc tcagttttat aaacacagaa tataacaatt cacttttaaac 1020
ttttattacc acagttgctg cctcctccag aatttttgaa ttttaataaa aggcaaacctt 1080
ttgagctgca ggaaggacaa tgttggttaa taataaatct caaagtcaat tgtagaaaaa 1140
aaattgtctt caaaaagaat gttgcaactt gatctcttaa caaattgtta cgttcaaagt 1200
ttaagtgat atattaacar agtcacctag ttatacaaac aattgtcaga gaattctgga 1260
tttggagggt attgggggta tatgattctt tcttagataa tggcctctac taaataactc 1320
aagatctttc tggaatgtct tctggcaggc aggtgccact gtcagctttt ctccaaaaag 1380
cagccaacat cagcctcccc tgtcaactca acagttttgt atctcatatt atatggactt 1440
tatatgaaaa tgaatatatt acagtttgca cagtattatt ttacagaaaa ggaatcagag 1500
aatctacaac atagggccccc agaacaacag tttcactttg tggcttttaa ttattctaga 1560
attttaactg catctcattt ttctagcatg gtgagaacta atatgttaact cttttgattg 1620
aaggagctct tttgtccgta cctatcagaa tgttttcttg acacttccat gttggctctt 1680
ctcagctttt tttgtacata tttttttttt cttaaagagaa gaaaaagtta tcacaaaatg 1740
taaaaaaaaa aaaaaaaaaa aaaaaa 1765
```

<210> 1464

<211> 475

<212> DNA

<213> Homo sapiens

<400> 1464

```
ggaaaacctt tagacttttt ttagcaatta gtttgacatt cgctactata gtaaccaagc 60
actcattata tatgcattct ccaaatgttt catgcttatt tataggaaag ttatattaat 120
gagattaata atgtgaaata cagttttcct gcaaaaattag cattagagaa ttgatttttag 180
ataacagatt tttaaagttt tagagaaaag tacagtaata cagtaaactg aargagtata 240
tagatagcaa taaaataaca taagtggaca tgtttatagt aaatactctg aagtaaacam 300
ccgtttttat taactgcatt tcattagggg aagttttatat gtcttggtat tttttattaa 360
cattttattt accattcaga gtgaaaatta ctaatttgrg tattaacaaw taactgrata 420
aatggtcatt acagtttagt tttcccaaat tgcmaaattt gccttaggca ttatc 475
```

<210> 1465

<211> 198

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<400> 1465

```
tggcaggggc actggcccg cccgcacctt cctagcagcn agttacccaa gaggaagctg 60
ccttgggsc tccagaccgt aaatgccaac tcctggcttc cggtatcagg ctgggttgac 120
ctgacctggc ccctttctgc tgggcccctgc agctttctaa cttgccgggn ggagcagtga 180
cacccgcccc acatgtgg 198
```

911

<210> 1466
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 1466
gtggcagagt gccctgcggg actgccagcc ctcctgtcc tccctcagca acctggcgga 60
acagctgcag gccgcacaga acctgcggtt tgaggatgtg ccggcgcttc gggccttccc 120
agatttaaaa gagcggctga ggcgtaanag ctggtggctg gtgacatcgt cctggacaag 180
ctaggggaaa ggctagccat cctcctcaag gtgcgagaca tggtcagcag ccatgtggag 240
cgagtgtttc agatctatga gcaacacgca gacacagttg gcattgatgc tgtcctgcag 300
ccttcagcag tgagcccctc tgtggctgac atgttggaaat ggttgcagga tattgagaga 360
cattatcgaa agtcgtacct gaagagaaaag tatcttcttt cgtctatcca gtggggagac 420
ttggcaaaaa tacaagcttt gcccaaggcc tgggaccgaa tttcaaaaga cgaacaccaa 480
gatcttgtac aagatatcct attgaatgtt tccc 514

<210> 1467
<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

912

<400> 1467

```

ggcctntatt ngaaagtcca tcnggttctt aacagngett cctctttcca gggctctcca 60
tggcgtgcgg aacttcccag ggnaacgtga aacctgtccg cagtccytgc ccytgccctt 120
tctttkggag acgtgtgaaw gagcmgcasc cactttaatg tgaggccasc catataaaca 180
atraactttc acttscgccm ggaggtcata aactcaggtc accaaagaat tctagcttca 240
gctcttggtt tagtaatgta ccaagtttgg tattactttt tgtttgtttt aatcaggttt 300
ctgccctcat cttctatttg ggaaattaaa actgggtctgt tggcatggct ggtgactgag 360
cggcaggcac attcttagtc tctgactttc tgcagccatc tttgagtgc tataagtgtt 420
gggtaacagt ctactgaatg tgctacaagt gtgcggagtt gtgttcatct ttaacttggt 480
ttttttaaaa aacaetctct tggtaaatg ggatctcctg ttgaaaactg tatttgtttg 540
gcagttgagt ttatgcctgg agcccctaga gcacatttaa ctggttgggtg gtcagttgta 600
ccatactgaa aaaaaaaaaa aaaaaaaaaa tggggggggc cgaccccat 649

```

<210> 1468

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (219)

<223> n equals a,t,g, or c

<400> 1468

```

tccagtattt tcgggggctg gtggacgcgt gggcgatagg gtgctgtcct tgggggtgctg 60
tgtatatggg atgatgacgc ttatcagcay tatctagtcc tttccacccc gaaattcgcc 120
ccgattaaag actgwtgtgc attatcagggt aatgagatgt gagggaggggt ctttgaaagt 180
ggaaaaacctg ggcgtcgagg ccactgtgcc atcttgggnc ctcagtttcc ttatctgtga 240
aatgaggggtg aatgtaaagc tgctatgtaa aatgtaaagc tctacataaa ccactctctg 300
cattactttg gatatatgag aatattaacg tttgacgtct acgagactag atccccattcg 360
agcatcacct cccataacct tacagactaa cccctctttt aaatctcagt ggttcgtaat 420
cttacagact aaccctctt ttatgtctca gtggtcttgc agctggcttt tgttcatta 479

```

<210> 1469

<211> 399

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 1469

```

gtatccggat gggctcattt tatatgtggt ttaaactctg agctagaagg caacactact 60
ttcttgtgaa gcacaccatc tgtccttggc cctagggagc tcctgccgtc ggtcactggg 120
tcccctgatg caccctttc aacagacttt tcattttggg gtacgtsctg acttcctggc 180
actgcagggt gctccagcct cctcttgcct tccctgccct ggcccgggaa tcagccctt 240
ctccaaggag ccccggttcc ttttattggc aagtcttaag agagtgaggc ctgggtgcc 300
ggcagggagc cccaggtcct tttattggga agtcttagag agtgaggcct ggggtgccagg 360

```


913

tgggtgccag gtgggtncgg tgctgctggg atgttgtca

399

<210> 1470

<211> 460

<212> DNA

<213> Homo sapiens

<400> 1470

```

ttaaccctca ctaaaggga caaaagctgg ggctccaccg cggtgacggc cgctctagaa 60
ctagtggatc ccccgggctg caggaattcg gcacgaggac tagtccgagt tttttttttt 120
ttttttttta aaacaaatac ttttattgca catttataaa atctgcatag ttgtatcaat 180
ttttttccct ttcattgattc cattaatctt taaaatttgg ttaaaacaca atatccaatc 240
agaagccttt taaaaatgat caatgggaag tattttttctc tacatatata tatatatata 300
gtttttgcata tgtatgctgg tttttttttt tttttttttt gtacaaaccc acatccctta 360
cttttaaggg caaaaaagaa ggcsgggtac gatgacttgt ctgcaatccc agactttggg 420
aggctgaggg aggcagatag atcacttgag gccaggagtt 460

```

<210> 1471

<211> 2007

<212> DNA

<213> Homo sapiens

<400> 1471

```

tacattggaa caagaacaag aagcactagt taatcgcttc tggaaaagga tggataagct 60
tgaagctgaa aagcgaatcc tgcaggaaaa attagaccag cccgtctctg ctccaccatc 120
gcctagagat atctccatgg agattgattc tccagaaaat atgatgcgtc acatcagggt 180
tttaagaat gaagtggaa ggctgaagaa gcaactgaga gctgctcagt tacagcattc 240
agagaaaaatg gcacagtatc tggaggagga acgtcacatg agagaagaga acttgagggt 300
ccagagggaag ctgcagaggg agatggagag aagagaagcc ctytgtcgac agctctccga 360
gagtgaagtcc agcttagaaa tggacgacga aaggtatttt aatgagatgt ctgcacaagg 420
attaagacct cgcactgtgt ccagcccgat cccttacaca ccttctccga gttcaagcag 480
gcctatatca cctgggtctat catatgcaag tcacacgggt ggtttcacgc caccaacttc 540
actgactaga gctggaatgt cttattacaa ttccccgggt cttcacgtgc agcacatggg 600
aacatcccat ggtatcacaa ggcccttcacc acggagaagc aacagtcttg acaaattcaa 660
acggccacg ccgcctccat ctcccaacac acagaccca gtccagccac ctccrctcc 720
acctccgcca cccatgcagc ccacgggtccc ctcagcagcc acctcgcagc ctactccttc 780
gcaacattcg gcgcacmct cctcccagcc ttaatgcatg agcttagtct gaatttcaag 840
wtgggactca tcmaatggag ccgtctactc aaamgcaaag gcttccttct ctggcatatt 900
tggatatgac ttatttgac tgagggtatc taggcttcac tatccattgt gttgtaaatg 960
tttgtcagaa atgcagccag tgttgtgggt ctacaacact aaccagacga ctttttccat 1020
cagtgttwtc cttgaatctt catgtacgtc cattccctgg ctggaacctt cgctgtttgg 1080
tatttgggtat ttcagcagca gtgtgcaatt tttgcttggc ccagagcttc attctcctgg 1140
cttttaggtt tgtaaaagaa aaagggatat cttttttata tktttttcca tgaatctgca 1200
gaaaattact gagctgttgt taccctcctc tcattataat agtgtttacc aaacatacca 1260
ataattcagc actacaattc agacctttga aaatctggct ttcagtgtag aacagaaagt 1320
tagatgaatc agtgcccaag acataatttc tgtttaacag aactttctac agatacattt 1380
tttacagggt attttcattg tgttattgac atccatgtct ctcgtaaaac agatggccca 1440
aagtaatgaa tcatgtggct gtaccttctc cacataaatg ggatggataa ttatcgtata 1500
ttaagatgtg attctctttt ttatccttaa tgtaaatcta cttaacctgg cccctcttaa 1560
catgagtcga taaatgttgt cctactcacc ggtggtttca atggctaatt agaatgtgtt 1620
atttgatttc tgctgcagaa ggcagtgtga ttgtaacaaa aacaatgcgg cttccccctt 1680

```

914

```

tcgtacttca tttgtgttct cttaaaatag agtttgaaca aatattttta aggtgcaaaa 1740
taccattaga aaatactatt tgaaatggac attatcgcat tatcttggca taatggccag 1800
aaaatattgt attgcttggc agaaaagaaa ataaggtcta aaggaaagta gcacattagc 1860
attgatggct gttcatttca cccagtataa gcaagtgcag tgtacaaaga agtatattct 1920
gaatacatta tttccattca tttagcacia ataaatcatt tggtttctact ttgmagtgga 1980
aaaaaaaaa aaaaaaaaaa aaaaaaa 2007

```

<210> 1472

<211> 400

<212> DNA

<213> Homo sapiens

<400> 1472

```

acagagcaag actccatctc aaaaaaaaaa aaaaaagact taacagagca tttcacgggg 60
aagggccatg agggaaacatc accygggtga tggttaacatt ctgtatcttg ataaggattt 120
gagttataca agtatataca tctgtcaaaa ttcaaagaat gtacactcaa gatctgtgca 180
tttcattata tgtaaatgtt acmttaaaat gttgtaaaaca aatattgaac aaatatacgc 240
atgctaaagt atttaagagg aagtactggt gtctgcaaaa caaaaatttt ttttccattt 300
tctgtggtaa aatatacata atataaatgt attattttta gtgtacaatt cagtggcatt 360
aaatacactc agaaagttrm aaamaaaaaa aaaaaatttc 400

```

<210> 1473

<211> 1278

<212> DNA

<213> Homo sapiens

<400> 1473

```

tcgaccacg cgtccgcatg gagcacctgg agtggtctgt ctggaatgct ggctggggagc 60
cttctcctgg catttgaacg aggggcagct gtgtcctctg tttgccgtgt aaagaaaaga 120
ggacagagct cagaggagat gaaccccagc agaaaggggt gcttgaccag caggagagaa 180
gataaccaag aggggtctgt ggtgtctctt ctgagctaca ccagtttcca ggttacctgg 240
gaccatggat aactctcaga tcagcaactt gtcagttgat ttccaagctg ctgttggctg 300
gactcagact cagcaggag cactggggcg agccctgtgc tgcgggctgg actccggccc 360
atctcgctga ttactcttgc ttttgctccc cagtgtgtcc tcaagaggtc agagcctgct 420
tgttgtttct tcatgaccac gggaggaggg gcaccaacat gaggggtgcta gcctctcccc 480
agtgggtggc tcccagggct ggggaaaccc tgggggaggg gttgggacag ggacctctgt 540
cgcttgctgc cactgcctgg gtcaactgcc tggcaaggct ggccgctcgt gctcagaaag 600
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gcattctgtg tctgtctctg arctactcgc atgataagtc tttgttgtcc tgtgggatgt 720
caccggttca tgctgaagag aaattgtaaa ggactccttt gctgtctcag gccccatggy 780
ctctgtcatg ttttgtcccc gtcccttttg garcacagca gcagtgggct ggctggactg 840
tgcaggcgag gttcaaggat gargtacagt tgtgtgaaag gtgagcctgc tggaccgggg 900
agctttcctc aaggcctccg cctggctatg atggcgtag ggttgagggg aagcttcctc 960
caaaatgcac agtacttgga tgtcaagatg atgttgctgc tctcaggatg agtcactctc 1020
caccactgac ttcttttgat gttctgagct cagcctggag tctgamctgg gactatagca 1080
cttggttctc caaggtaagg ctggcggsca aaccagtgcc gcacacctga acctgtcctc 1140
tggcagarat gaagggcgct atgtttcgta gccactcaac acctatggac aatttggtctc 1200
cttgwaaga ctwakgcatg cctttgaact gacttacttg aaatataatt gskccyattt 1260
tgctccaaag aacaatgg 1278

```

<210> 1474

915

<211> 475

<212> DNA

<213> Homo sapiens

<400> 1474

```
gaattcggca cgagaaagggc aggacctcga ggcgcgggccg cgcgaggtga ccggagtcac 60
agttcccgcga ggcgggcgaca gcagagcgcc cactgcctcc agcagattaa tattaagatt 120
ggaagtttgt gtctttttgct ggatattgga aattgaatgt aatggcaaca gaatttataa 180
agagttgctg tggaggatgt ttctatggtg aaacagaara acacaacttt tctgtggaaa 240
gagatttttaa agcagcagtc ccaaatagtc aaaatgctac gtatctctgt acctccattg 300
acttctgttt ctgtaaagcc tcagcttggtg tgtactgagg attatttgct ttccaaatta 360
ccatctgatg gcaaagaagt accatttggtg gtgcgcaagt ttaagttatc ttacattcaa 420
cccaggacac aagaaactcc ttcacatctg gaagaacttg aaggatctgc aggag 475
```

<210> 1475

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<400> 1475

```
cgccatttttc cccacagggg cgaggaggcg gctttggttc tcccgggtggg cttgcccggag 60
tgcgttctgc agaccagaag ggctttgtct ggcgattgct gaatgctcaa tagcagcctg 120
ctgggaggga agtcgaaggg agaaatagga cagaaagaga gacctgacct ctccctggag 180
gctctcagtg tcggccgagg cccttggtct tgctctaggg ctctgcattc ccgagagctg 240
ctgtatgccg gggattggct tccaagcctg cctgagcttc tccagtctcc cgggcatcgc 300
catgcggtgg gaggggtgagc cttcctctcc tgctgaaatt ccggcggttt ggcaaccggc 360
cgggggggtct tggattcctc ggggagacam cactgatgct ttgtgggttc acgtaatttg 420
gatttaaaan ttgaaggcgt ca 442
```

<210> 1476

<211> 1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

916

<222> (931)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (973)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (995)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1004)

<223> n equals a,t,g, or c

<400> 1476

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tccggtaccg gtccggaatt cccgggtcga cccacgcgtt tntaaaaacc acgtttcttt 60
gttgagctgt gtcttgaagg caaaagaaaa aaaatttcta cagtagtctt tcttgtttct 120
agttgagctg cgtgcgtgaa tgcttatttt cttttgttta tgataatttc acttaacttt 180
aaagacatat ttgcacaaaa cttttgttta aagatctgca atattatata tataaatata 240
tataagataa gagaaactgt atgtgcgagg gcaggagtat ttttgattta gaagaggcct 300
attaaaaaaaa aaagttgttt tctgaactag aagaggaaaa aaatggcaat ttttgagtgc 360
caagtcagaa agtgtgtatt acctgtgtaa gaaaaaaaaatt acaaagcagg ggttttagagt 420
tatttatata aatgttgaga ttttgacta ttttttaata taaatatgtc agtgcttgct 480
tgatggaaac ttctcttggtg tctgttgaga ctttaaggga gaaatgtcgg aatttcagag 540
tcgcctgacg gcagaggggtg agccccctg gagtctgcag agaggccttg gccaggagcg 600
gcgggctttc ccgagggggcc actgtccctg cagagtggat gcttctgcct agtgacaggt 660
tatcaccacg ttatatattc cctaccgaag gagacacctt ttccccctg acccagaaca 720
gccttttaat cacaagcaaa ataggaaagt taaccacgga ggcaccgagt tccaggtagt 780
ggttttgcct ttcccaaaaa tgaaaataaa ctgttaccga aggaattagt ttttctctt 840
cttttttcca actgtgaagg tccccgtggg gtggagcatg gtgccccctca caagccgnac 900
ggctggtgcc cgggctacca gggacatgcc ngagggtcgc atgacttgtc tctgcagggc 960
gctttggtgg tgnttaactg gctaaagggt accgntgaag gcangtgcgg taactggcc 1019
```

<210> 1477

<211> 857

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (820)

<223> n equals a,t,g, or c

<400> 1477

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tgaaatgccg cttattcagt ttttaagtact gacctgctaa gtaactagta attccagact 60
ccctagaaga gggtgttctc tttttcccta atcataatcc ccacttgcta aaaccaaatt 120
catctaagcc atctattttc tgcaggatac atgtaaatct tagaggatta tcccagcact 180
```

917

```

gagcagatga tagatcaaac agatctctct tcatagttct gtggatgaaa aaacagtatt 240
tacacataat ctgtattatt cacattgcc aagctaaatt tckggaycat tgktacycyt 300
cygttttttg tatagttgta acagagtaty ctttaaatac atttttatgg catgcctatt 360
atgtacaaaa caccacaaag cttatgtagg taagtgtatc ataggcccct acctcaagga 420
gcttactgtc tgaacagggg agaggtgtgg tgaaggatgg acaaattata tgtatttgta 480
agagtatata atttatggta aaacaatttc aagaaaggat taaaccatgt gttataatgt 540
ttcaaagaag ggagagatta taaaccactg gggtaaaagg ataggcttct tggaggaagt 600
gacatttgag atatatcttg gatgaccgat cagattccca tagaagaggt ctgagaaaag 660
ggcattccat gtagaaggaa tgacaagagc aaagacatag agagttaatt agaaaatgct 720
tgtcatttat ttcataattc gggggaaatt attttgtttt ataacacttt taaaaaatat 780
ttagctttgc agttcctgac cccttaatgc ctgacccttn caagcaacca aagaaccagc 840
ttaatcctat tggttcc 857

```

<210> 1478

<211> 2771

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<400> 1478

```

nttgagggttc tgggggtcct ggagacttac cattgagcca tgcaatctgg gaagcacagg 60
aataagtaga cactttgaaa atggatttga atgttctcat cccttttgca gcttttcttt 120
ttggctctct catgtccttg gcttgctcct ctattctacc tctctttctc cagcaataat 180
atgcaaatga agacatgtat ccataagaag gagtgtctct catcaactaa tagagcacct 240
accacagtgt catacctggg agaggtgagc aattcatatt caaagggtgc aaagtgtttg 300
taatataatt atgaggctgg aakkaagaag aattaaaaat ttgtcctaata tacaatgaga 360
accattctag gtagtgatct tggagcacac atgaataact ttctgaagggt gcaaccaaatt 420
ccatttttat ttctgcctgg cttgggtcacc tctgtaaagg tttaacttag tgttgcaag 480
taacagttac tgaagagagc gagaaaaaga acaatgaaca gcaacgatct tgactgtgca 540
actcagacat tcctgcagaa aagacatatg ttgctttaca agaaggccaa agaactatgg 600
ggccttccca gcatgtgact gttcattgca tagaatgaat taaatatcca gttacttgaa 660
tgggtataac gcatgaatat ttgtgtgtct gtgtgtgtgt ctgagttgtg tgattttatt 720
aggggcatct gccaatctct tcaactgtgt tcttctctct actttgcctg ttcactatct 780
aaggaggcta gatccttcgc tgacttcacc attcctcaaa cctgtaagtt tctcacttct 840
tccaaattgg ctttggtctt ttcttcaacc ttccattca agagcaatct ttgctaagga 900
gtaagtgaat gtgaagagta ccaactacaa caattctaca gataattagt ggattgtgtt 960
gtttgttgag agtgaagggt tcttggcatc tgggtgctga ttaaggcttg agtattaagt 1020
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acacatggct ctacttgag aagctcacct gtgctgaatg tccacatggg cactaaacat 1260
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gatagatatt tgacttggtg agacttaagt aaggctcttg ctcccagggg cataascaac 1440
agtttcttga atgtgccatc tgaraaggga gaccaggtt rtgagttttc ctttgaacac 1500
attggtcttt tctcaaagt cctgccttgc tagactgtta gctctttgag gacagggact 1560
atgtcttata aatcactatt attttctgt tacctagcat gggacaagta cacaacacat 1620

```

918

```

atttgttcaa tgaatgaatg aatgtcttct aaaagactcc tctgattggg agaccatata 1680
tataattggg atgtgaatca tttcttcagt ggaataagag cacaacggca caaccttcaa 1740
ggacatatata tctactatga acattttact gtgagactct ttattttgcc ttctacttgc 1800
gctgaaatga aaccaaaca ggccgttggg ttccacaagt caatatatgt tggatgagga 1860
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agtgtaaagc agttctaagt tttagtattt gggggattgg tttttattat ttttttcctt 2040
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gcaagcatgt tgtttttcaa atatatcaag tatagaaaaa ggtaaaacag ttaagaagga 2160
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cggcatgggc ccatatgtgt gaggagcttg tctaattatg taggaagcaa tagatctcgg 2280
tagttacgta ttgggcagat acttactgta tgaatgaaag aacatcacag taatcacaat 2340
atcagagctg aattatcctc agtgtagctt cttggaattc agtttctgga actagagata 2400
gagcatttat taaaaaaaaa tcctgttgag actgtgtctt atgaacctct gaaacgtaca 2460
agccttcaca agtttaacta aattgggatt aatctttctg tagttatctg cataattctt 2520
gtttttcttt ccatctggct cctgggttga caatttggg aaacaactct attgctacta 2580
tttaaaaaaa atcagaaatc tttcccttta agctatgtta aattcaaact attcctgcta 2640
ttcctgtttt gtcaaagaat tatatttttc aaaatatgtt tatttgtttg atgggtccca 2700
ggaaacacta ataaaaacca cagagaccag cctggaaaaa aaaaaaaaaa aaaaaaaaaa 2760
aaaaaaaaaa a

```

<210> 1479

<211> 2065

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1984)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2040)

<223> n equals a,t,g, or c

<400> 1479

```

gcacaatgga tgaagaagag aaggatgatg gtgaagctaa agaaatttct acacctaccc 60
attgggtctaa acttgatcca aagacaatga aggtaaatga cctccgaaaa gaattagaaa 120
gtcgagctct tagttccaaa ggattaaaat ccaggttaat agcccgattg acaaaacagc 180
ttaaagtaga ggaacaaaaa gaagaacaga aggagttaga gaaatctgaa aaagaagagg 240
atgaggatga tgataggaaa tctgaagacg ataaagagga agaagaaagg aaacgtcaag 300
aggaaataga acgccagcgt cgagaaagaa gatatatatt gcctgatgaa ccggccatca 360
ttgtacatcc aaattgggct gcaaaaagtg gcaagtttga ttgtagcatc atgtctttga 420
gtgtcctatt ggactacaga ttagaggata ataaagaaca ttcatttgag gtttcattgt 480
ttgcggaact tttcaacgaa atgcttcaaa gagatttttg tgtccgtata tacaatcat 540
tactgtctct tcctgagaaa gaggacaaaa aagaaaagga taaaaaaagc aaaaaagatg 600
agagaaaaga taaaaaagaa gaaagagatg atgaaactga tgaacaaaaa cccaaacgga 660
gaaaatcagg cgatgataaa gataaaaaag aagatagaga tgaaaggaag aaagaagata 720
aaagaaaaga tgattctaaa gatgatgatg aaactgaaga agataacaat caagatgaat 780
atgaccctat ggaagcagaa gaagctgagg atgaagaaga tgatagggat gaggaagaaa 840

```

919

```

tgaccaaacg agatgacaaa agagatatca acagatactg caaggagagg ccctctaaag 900
ataaggaaaa agaaaagact caaatgatca caattaacag agatctgtta atggcttttg 960
kttattttga tcaaaagtc tgtggttacc ttcttgaaaa ggatttggaa gaaatacttt 1020
atactcttgg actacatctt tctcgggctc aggtaaagaa gcttcttaat aaagtagtgc 1080
tccgtgaatc ttgcttttac cggaaattaa cagacacctc aaaagatgaa gagaaccatg 1140
aagagtctga gtcattgcag gaagatatgc taggaaacag attattactt ccaacaccaa 1200
cagtaaagca ggaatcaaag gatgtggaag aaaatggttg cctcattgtg tacaatgggtg 1260
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aggtagaaca gaagctgcag ttactagaag aaaaaacaga tgaagatgaa aaaaccatat 1380
taaatttggg gaattccaac aaaagcctct ctggtgaact cagagaagtt aaaaaggacc 1440
ttagtcagtt acaagaaaaac ttaaagattt cggaaaacat gaatttaca tttgaaaacc 1500
aaatgaataa gacaatcagr aacttwtcta cggtaatgga tgaaatccac actgttctca 1560
agaaggataa tgtaaagaat gaagacaaag atcaaaaatc caaggagaat ggtgccagtg 1620
tatgataaaa tccatgtagt gatgaggaat ggtgttaaat aatgtaatat ataaaaatca 1680
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tcctagcctt caaattatta aacactcctt gagtgaaata attttgcatt gcaaagtgtt 1860
ttaggatgaa ctttktata gttttaactc caataamgtt catcagttta attgactgta 1920
gtatttaatt accaaatttc ttttattaaa atgcctagaa atttttaatt tatagaatta 1980
ttanggttta aaaattttta gtctctggtt aaaattcagt caaaatcata aaatacatgn 2040
gcttaaat tgcaggtttt tgaac 2065

```

<210> 1480

<211> 720

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<400> 1480

```

gaaaaacaag ctgagatcct ggaatatgca tatcatggac agatcgccat tgttgccccc 60
gaagcccttc tagcagggca caattatacg ttgaagatag agtactcggc aaatatatct 120
agttcttatt atgggtttta tggcttctcc tacacagatg aaagtaatga gaaaaagtac 180

```

920

```

tttgcagcaa ctcagtttga acccctggca gcaagatctg cttttccttg ttttgatgaa 240
ccagcattta aagccacttt tatcatcaag atcataaggg atgagcaata caccgcttta 300
tcaaatatgc ctaagaagtc atcagtcgtt ctagatgatg gacttggttca ggatgagttt 360
tctgagagtg tgaagatgag cacttacttg gttgctttca ttgtgggaga gatgaagaac 420
ctgagtcagg acgtaaatgg aaccctgggt tctatatatg ctgtaccaga aaagattggg 480
caagttcatt atgccttggg aacaactgtg aagcttcttg agttttttca aaactacttt 540
gaaattcagt acccacttaa gaaattggat ttggtggcta ttcctgactt tgaagcaagg 600
ancaatggaa aattgggntt ttgctcacct tccgaaaagg anacacttct gtttgacant 660
tacacttctt ccatggcgga taaaaaagct gggtgactaa aatcatttgc tcattgaact 720

```

<210> 1481

<211> 1167

<212> DNA

<213> Homo sapiens

<400> 1481

```

cggcgagcgac agcggcagcg tcagcgtcag cggcgctgag ttttgtctcc cgggcccgtct 60
ggcgcgcgcg ggggtgtccca gaatgaaata tgactgagga ctctcagaga aactttcgtt 120
cagtatatta tgagaaagtg gggtttcgtg gagttgaaga aaagaaatca ttagaaattc 180
tcctaaaaga tgaccgtctg gatactgaga aactttgtac ttttagtcag aggttccctc 240
tcccgcccat gtaccgtgca ttggtatgga aggtgcttct aggaatcttg cctccacacc 300
acgagtccca tgccaagggt atgatgtatc gtaaggagca gtacttggat gtccttcacg 360
ccctgaaagt cgttcgcttt gttagtgatg ccacacctca ggctgaagtc tatctccgca 420
tgtatcagct ggagtctggg aagttacctc gaagtccttc ttttccactg gagccagatg 480
atgaagtgtt tcttgccata gctaaagcca tggaggaaat ggtggaagat agtgtcgact 540
gttactggat cacccgacgc tttgtgaacc aattaaatac caagtaccgg gattccttgc 600
cccagttgcc aaaagcggtt gaacaatact tgaatctgga agatggcaga ctgctgactc 660
atctgaggat gtgttccgcg gcgcccacaa ttccttatga tctctgggtc aagaggtgct 720
ttgcgggatg tttgcctgaa tccagtttac agaggggttg ggataaagtt gtgagtggat 780
cctgtaagat cctagttttt gtagctgtcg aaattttatt aacctttaaa ataaaagtta 840
tggcactgaa cagtgcagag aagataacaa agtttctgga aaatattccc caggacagct 900
cagacgcgat cgtgagcaag gccattgact tgtggcacia acactgtggg accccgggtc 960
attcaagctg aacgcacccg ctggttgtgg accgtctgcc aggcaccaca gtgagcattg 1020
tgttcttggc atgtgatctg ggaaactgat tgaataatac acttttcttg ctttggtgct 1080
caaagtgggt tttttcccc aataaaatta tttaattgaa atgcctgggt ttgctgtgtt 1140
ggcgagcagc atcttgcagt tacatag 1167

```

<210> 1482

<211> 2129

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

921

<400> 1482

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aagagcagtc agaagtatct gtttctccta gagcttcaaa acatcattat tcaagatcac 120
gatcaagggtc aagagaaaaga aaacgaaaagt cagataatga aggaagaaaa cacaggagcc 180
ggagcagaag caaagaggga agaagacatg aatccaaaga taaatcctct aagaaacata 240
agtctgagga acataatgac aaagaacatt cttctgataa aggaagagag cgactaaatt 300
catctgaaaa tggtagaggac aggcacaaac gcaaagaaaag aaagtcatca agaggcagaa 360
gtcactcaag atctaggtct cgtgaaagac gccatcgtag tagaagcagg gagcgggaaga 420
agtctcgatc caggagtagg gagcgggaaga aatcgagatc cagaagcaga gagaggaaga 480
aatcgagatc cagaagcagg gaaagaaaac ggcggatcag gtctcgttcc cgctcaagat 540
caagacacag gcataggact agaagcagga gtaggacaag gagtaggagt cgagatagaa 600
agaagagaat tgaaaagccg agaagattta gcagaagttt aagccggact ccaagtccac 660
ctcccttcag aggcagaaac acagcaatgg atgcacagga agcttttagct agaaggttgg 720
aaagggcaaa gaaattacaa gaacagcgag aaaaggaaat gggtgaaaaa caaaaacaac 780
aagaaatagc tgcagcagct gcagctactg gaggttctgt tctcaatgtt gctgccctgt 840
tggcatcagg aacacaagta acacctcaga tagccatggc agctcagatg gcagccctgc 900
aagctaaagc tttggcagag acaggaatag ctgttcctag ctactataac ccagccgctg 960
ttaatccaat gaaatttgct gaacaagaga aaaaaaggaa aatgctttgg cagggcaaga 1020
aagaagggga caaatcccaa tctgctgaaa tatgggaaaa attgaatttt ggaaacaagg 1080
acaaaatgt caaatttagg aaattgatgg gtattaagag tgaagatgaa gctggatgta 1140
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tagatgctca gtatgaaatg gcaagatcac aaaccacac acaaagagga atgggtttgg 1260
gtttcacatc ttcaatgcga ggaatggatg cagtttgaaa atgatcacac ttgtaaagtt 1320
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tagcttgcat ggggtgttgca ttgactttta tttattgaaa aatacaaatt tttgtaaata 1440
tcagatcagt gatactggtg ttagtgttgt aatcagggtta aaccacttc cattaaactt 1500
gacaggacta tagaaggata atatttttta gttcatgaat tctacttttc aaatatataa 1560
aagctgcagg tggggataaa atctcataca tggatttttt cgtgtccgct gtcttgtgta 1620
cttttgtact taaccttgta cagttatttt catctcttga aacatgaaag aaatgttatg 1680
tagatgttct ttagaagatc tggccatttg gtacataatc cagcacagat aagctgggtg 1740
gtaatgataa taaaaatggg tttctcaaaa ctggtgttaa ttttaagttac ctgggatgtt 1800
tctttgaatt tgttttatag tttctgtagc atttggaat tgctgttaga aaacactagc 1860
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ttataaggga cagacttggg attcagatatt tgtcaaatat tacatgtgtt attcaggaga 2040
tagattaatg cattaaaggg atgtaagcac ttttatttta ataaagtgcc ttataacaaa 2100
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2129
```

<210> 1483

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<400> 1483

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ggtcgaattc cgggtcgacc acgcgtccgt ttgcttgtna ctatttttca ttgaagcatg 60
```

922

```

cgcttaccta tgctgattct tactaaaagc ataggctggg gtattttattg gcgaaaggaa 120
atgtgtagtg tgggctggac tgttggtgga ggctggcctt ttagccctact tgctatacat 180
gctgccaatg gattttaagac ttgaaatgtt gaaagttgag tggaattatt tccttcctaa 240
aacattttatt tacagtactc ctctctaccc ctaagggttg gctctgcctc agaggagtga 300
gtttttttttt ttttttctat aaagtttaca ttgtcttact atttattgar tgaatyctcg 360
gtcattgcct atgcaaatat aakaaatctg gctttaaata ttagtcagtt tcatggctat 420
gactagattg ktttcttgka taactaaata cctgkataaa atgaactaat gttttctctc 480
ccctccctac cccttcctaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 533

```

<210> 1484

<211> 901

<212> DNA

<213> Homo sapiens

<400> 1484

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tcgaccacag cgtccgaaac aaaacaaaaac aaaacaaaaa cttgaaagac tgcccaagaa 60
aggtgaaggt tagatctcag gggatgatct tgaagcaact gagacagacc tagaaacttg 120
cctcatatga tacaagaaga cccagcttct ttgtctctac cctgtaggca ctgggtagac 180
aggtaggtga tattttactt cacaaacaag ggaactaaaa gtatgaacat ttctctgttc 240
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tgtctggtac aggaggtatg cagcagatgt tctgcatctg agctccatta tgactgtccc 360
ccaacaaatc atccccccagc cagcccaagg gaacgtggaa ttcagagggg aactgttcta 420
accaggagca gccaattaga tccaggccag agaaacccat atccaggcac tttatctttg 480
tcctaaaaatg aacctagcta acctcttcag gctatccaaa accctgacca ctccacatag 540
agagacattt gctagcctta catgtcactt tccactgtac acataccaat gacacctgaa 600
ccagatataa agacagagacc acaaagggtc tgctgagcct aaggatctgc tcacctattt 660
ctgatcccga atgcccctgg gacatcttcc agaatgtgtg cctccaaata aagtctagaa 720
aattggagga aaattttaat gcagatgaat cgagaaggaa taaaagccat tagaaattct 780
gggaaaacaa gaaatataga agaaagtcac ggggctgggt gtggtagctc acgcctgtaa 840
tcccagctac tcaggaggct gagcaggaga atcgcttgaa ctggarargt ggaggktgtg 900
a 901

```

<210> 1485

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (691)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

923

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (780)

<223> n equals a,t,g, or c

<400> 1485

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gaactagtgg atcccccggg ctgcaggaat tcggcacgtt ttccccgtt ccttggagtc 120
agtattttga gtccatggaa gatgtagaag tagagaattg cttggaccgg ggaggcaaag 180
gttgcaagtga gtggagatca tgcattccac tgcactccag cctgggagac aagagcaaga 240
ttctgtctca aacaaaacaa aacaaaacaa acaaaaaact tttaaccagg atttttttaa 300
aaaatagtaa actctacctt acacagtatt tctcatttta accatgtgga aatgaacagt 360
tcagtggcat taattacatt cacaaggctg tggaccacac cactatctat accccaactt 420
tttcatcatc cccagcaaga actctgtacc cattaagcaa taactcctgc ctgcgtcccc 480
aagctctatt ctgcttttgg tctctgaatt tgcctatttt aggtagctca taggtggaat 540
cctacaatat ttattttgtg tctggcttat ttcgttttagc ataatgcttt caagtccatc 600
catgttgtaa gtgtgtatca aaattctgtt ccattttatg gctgaatatt ttattaaatg 660
catattccat attttgggta gccattctcc ngaacggaca tctgggggtt gcttccacct 720
tttgacgaat ggtgaataaa gccggnatga ccatgggtgt anagccaatc antccattcn 780
tt 782
```

<210> 1486

<211> 891

<212> DNA

<213> Homo sapiens

<400> 1486

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gaattcggca cgagccttga gctagcattt cattatgacc gtgatttttc cccgcaccac 60
tttccagcct tgtggtccac aattccactg ggccttaagt atgtactgaa ctttcttgc 120
tccctcattt tgctctgctt gtgcaatttt ttcaccctc catctctgtc aaacgtaagc 180
cttccctgacc tctaagacct acctttgtca tgtaccttta cctcaggca aggagcaatc 240
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tacccttgta tttcccacag tacttcccat agtgarttac ccttagtaaa tacycagtaa 660
gttgaattga atttaaatta mctgtaagtc ttaaaatgtg ggattaaatt aagaatatat 720
tgctctggaa atacccaagt gtctattgat ggatgaatgg ataaacaaaa tgtggtatac 780
acataatgga atattattca gccttaaaaa ggaatgaaat tctgacatgt gctacaatat 840
gatgaacctg gaagacatta tatgtgaaat aagccagaca gaaaaggaca a 891
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<210> 1487

<211> 1181

924

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<400> 1487

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ataaatatac gggaagcagc agagggttc cctgtctagt gtgtgatcct aactaaaggc 120
agctctcttg gacagccttc ccctggatta ggtcacatac acctggtggc caagcctctg 180
ctgggtccca aatacacacc cgagtcctgc caaagaaagg agatttttaa aaagcacaga 240
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tgggtacctg gaggtgcca gagctggag ctctgcaggt atgagtcagg gaaggctcag 360
agacaagcag aatctctcta tggagacaac ttgcagtgcc ttttaggttt tccaaataac 420
ctcggagttc agagcattgg gtttttttct cccctcccca cccccagaaa aataattaga 480
aaaatgttta ggagaaagga aaagaattag atgcatcaga ataccagcta taagccaaca 540
ctgtttccag aaactcaaga aaaagctcaa acagaagaca gttccctga gaggtggag 600
gcgttgggtgc tgaaggnaat tttcctagct aaggggact gggccttgct gcaccttggg 660
gctgaccttt ttgcaaaac acccaccct gccctcctgg catactcaac agcaacgcca 720
gctttctgga cccttgaaa gatgttagct caaacacca ctttttccag atcttcctct 780
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ttacctctcc ccattttctg ccctggccca cttcccactc acctccacct yattgccm 1080
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tatttgcatt tattaggaac aggccttaaa ttcaaggaaa a 1181
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<210> 1488

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

925

<221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (505)
 <223> n equals a,t,g, or c

<400> 1488
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 gaaaacaagt tggttgctgga gcagttggag attcagcaaa ggaaagccaa ggacagccac 180
 caggagcgcc tccaagaagt ttctaagctg actaaacaac taatgctcct ggaggcaaaa 240
 acccacggcc aggaaaagga gctggcggag aacagggaac agctggagat tttacgtgcc 300
 aaatgccaaag aactcaaaac acactcggat ggcaaaatcg cagtgggaagt tcataaatca 360
 attgtgaatg aattaaaaag ccaattacag aaggaagaag anaaagaaaag ggctgagatg 420
 gaggagttga tggagaagct gacagtccct caagcgcaga agaagagcct gctgttanag 480
 aanaacattt tgacagagca naacn 505

<210> 1489
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 1489
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 cgccgctgcc cgccctgggc ccacagccca gcttcatggc gcacctggca ggcgcggtgg 240
 tgggggtgag catgggcctg accatcctgc ggagctacga ggagcgccctg cgggaccagt 300
 gcggctgggt ggtggtgctg ctggcctacg gcaccttctt gctcttcgcc gtcttctgga 360
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 gaggtgcac aggccagggc tcgggcatgt ggtggccgcc accaggggcc ttcacgtctg 480
 ccctttgtga acggacgtct cagggtgctg gtgccccttg ggtgtgggtg gcctcaaagg 540
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 taattaataa atatttttacc cagcaccaaa aaaaaaaaaa aaaaaaaaaa c 651

<210> 1490
 <211> 2968
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2961)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2964)

926

<223> n equals a,t,g, or c

<400> 1490

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caccacaat gcacacaact ggaggctcgg ccaggcgccc gccarctggt acaatgacac 120
ctacccccctg tctccccac aaaggacacc ggctgggatt cggtatcgaa tcgcagttat 180
cgcagacctg gacacagagt caagggccca agaggaaaac acctggttca gttacctgaa 240
aaagggctac ctgacctgt cagacagtgg ggacaagggt gccgtggaat gggacaaaga 300
ccatggggtc ctggagtccc acctggcgga gaaggggaga ggcatggagc tatccgacct 360
gattgttttc aatgggaaac tctactccgt ggatgaccgg acgggggtcg tctaccagat 420
cgaaggcagc aaagccgtgc cctgggtgat tctktccgac ggcgacggca ccgtggagaa 480
aggcttcaag gccgaatggc tggcagtga ggacgagcgt ctgtacgtgg gggcctggg 540
caaggagtgg acgaccacta cgggtgatgt ggtgaacgag aaccgggagt ggggtgaagg 600
ggtgggtcag aagggcagcg tggaccacga gaactgggtg tccaactaca acgacctgcg 660
ggctgctgcc ggcatccagc cggcaggcta cctcatccat gagtctgcct gctggagtga 720
cacgtgcag cgctggttct tctgcccgcg ccgcccagc caggagcgct acagcgagaa 780
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attcatgtca gcacctgagt cacagccag gtgcccggaa gcagcctctt cgcataggca 2760
gtgatttgcg attactttaa agctcacctt tttcttccc ctctctgttc gctgctgtca 2820
gcataatgat tgtgttcctt ccctatggga tccatctgtt ttgtaaaaaa taaagcgtct 2880

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927

gagggagtgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2940
 aaaaacaaaa aaaaaaaaaa nagnagag 2968

<210> 1491

<211> 529

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<400> 1491

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tccccatttg	aattgttccc	tagagtttac	acagttgtac	cttattacca	gtttaaatgg	120
atatctcagt	taataatttt	caatagttaa	actatcaaat	atcagagatt	tacttccttt	180
tagttactat	gaaaagcaca	tttacttttg	agagcaactg	taatacacct	aaaattagag	240
caaccaaagg	catgtatgga	gcatttttta	atttaaaaaa	ttgcattttg	tttctcatac	300
cttatttaaa	acattaagaa	gtaaatgtct	ttagtttttg	agtacatttt	tatatgaata	360
ggaaacatgc	tgntttcata	atccagkctt	ttgatgtgtg	tgaaatgaat	ttgtgtggag	420
cgttatgtga	atttttatga	acttatcttt	tattggtgat	ctanaaatgc	ttgggatacc	480
taanaattcc	agacctcagt	ttcttatggg	ggataacaat	ggatttggn		529

<210> 1492

<211> 1225

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 1492

gtgcactcta acgatctctt tgccatcttg ttttaatctg acagttctca gacatagana 60

928

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aaaaaggtaa ctcacatgcacg tactacacctt tttctctatg tctgagaact gtcagattaa 120
aacaagatgg caaagagatc gttagagtgc acaacaaaat cactatccca ttagacacat 180
catcaaaagc ttatTTTTat tcttgcactg gaaggaatcg taagtcaact gtttcttgac 240
catggcagtg ttctggctcc aaatggtagt gattccaaat aatgggtctg ttaacacctt 300
ggcagaaaat gccagctcag atattttgag atactaagga ttatctttgg acatgtactg 360
cagcttcttg tctctgtttt ggattactgg aatacccatg ggccctctca agagtgtg 420
acttctagga cattaagatg attgtcagta cattaaactt ttcaatccca ttatgcaatc 480
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cttaaaagga acttcagtga atttgttttt attttttaac aagatttgtg aactgaatat 600
catgaaccat gttttgatac ccctttttca cgttgtgcca acggaatagg gtgtttgata 660
tttcttcata tgttaaggag atgcttcaaa atgtcaattg ctttaaaactt aaattacctc 720
tcaagagacc aaggtagatt tacctcattg tgtatataat gtttaatat tgtcagagca 780
ttctccaggt ttgcagtttt atttctataa agtatgggta ttatgttgct cagttactca 840
aatggtagtg tattgtttat atttgtacct caaataacat cgtctgtact ttctgttttc 900
tgtattgtat ttgtgcagga ttcttttaggc tttatcagtg taatctctgc cttttaagat 960
atgtacagaa aatgtccata taaatttcca ttgaagtcga atgatactga gaagcctgta 1020
aagaggagaa aaaaacataa gctgtgtttc ccataagtt tttttaaat gtatattgta 1080
ttttagtaaa tattccaaaa gaatgtaaat aggaaataga agagtgatgc ttatgttaag 1140
tcctaacact acagtagaag aatggaagca gtgcaaataa attacatttt tccccaaaaa 1200
aaaaaaaaa aaaaaaggcg cgccc 1225

```

<210> 1493

<211> 2298

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2291)

<223> n equals a,t,g, or c

<400> 1493

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gaattcggca cgagccactg ggacatgtcg ctgccgctca tctgtactct gagcactatc 60
tccatcatcc tccatagcggc catgatcacc atcgccgctca agtgcaagcg cgagaacaag 120
gagatccgca cttacaactg ccgcatcgcc gagtacagcc acccgagct ggggtggggc 180
aagggcaaga agaagaagat caacaaaaat gatatcatgc tgggtgcagag cgaagtggag 240
gagaggaacg ccatgaacgt catgaacgtg gtgagcagcc cctccctggc cacctcccc 300
atgtacttcg actaccagac ccgcctgccc ctcagctcgc cccggtcgga ggtgatgtat 360
ctcaaacagg cctccaacaa cctgactgtc cctcaggggc acgcgggctg ccacaccagc 420
ttcaccggac aagggactaa tgcaagcgag acccctgcca ctcggatgtc cataattcag 480
acagacaatt ttcccgcaga gcccaattac atgggcagca ggcagcagtt tgttcaaagt 540
akctccacgt ttaaggaccc agaaagacca gcctgagaga cagtgggcac ggggacagt 600
atcaggctga cagtgaacaa gacactaaca aaggctcctg ctgtgacatg tctgttaggg 660
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aaccttatTTT aaaagccaaa cgtgccttga gccctctcct ccaagagggt ccctcagcat 1020
caagcagccc aaccaaggcg tgcacgagc cttgcacctc aacaaaaggc tccctggatg 1080
gctgtgaagc aaaaccagga gccctggctg aagcaagcag tcagtacttg cccactgaca 1140

```


929

```

gtcaatatct gtcacctagt aagcaaccaa gagaccctcc cttcatggct tccgatcaga 1200
tggcaagggt ctttgcagat gtgcattcca gagccagccg ggattccagt gagatgggtg 1260
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aacacatatt tgtggtaaac atttctgtat aaagttacct gacacacata taaacacaag 1980
gaacattcca tatcattagt cgaaaacaaa aacaaaaaaaa aaaccttygg tcatttgtaa 2040
kacatctcat gtcataataa agttaaatgt aaaaagatac agtccatttt gtcctgcaca 2100
cacgtagact aattcacgct attaaagaag aagaaaactt aaagatttaa aatgcctatt 2160
tagcatttta gtgtccaaca aagatttaaa caatgatgaa tatgttttaa atttgacata 2220
gaaaagttct aaaaaatagt taccattgag tggttaagatt cagagaaaat taacttgatt 2280
aatatgtttt naaaaaaaaa 2298

```

<210> 1494

<211> 389

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<400> 1494

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aganacccan ccctcactaa agggaacaaa agctggagct ccaccgcggt gacgaccgct 60
ctagaactag tggatcccc gggtgcagg aattcggcac gngccccgc gagccgctcg 120
agaactccgc cagcgagtcg tctgacacgg agctgccaga gaaggagcgc ggcggcgga 180
cccaaggggc ccgaggacag tggtgcgga ggcacgggct gcggcggcgc agacgacca 240
gccaagaaga agaagcagcg gcggcaacgt acgcacttca caakccagca gttgcaagag 300
ctagaggcca cgttccagag gaaccgctac cccgacatga gcatgaggga ggagatcgcc 360
gtgtggacca acctcaccga gccgcgcgt 389

```

<210> 1495

930

<211> 1400

<212> DNA

<213> Homo sapiens

<400> 1495

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ctctggagcc accagcagaa cctcttcaat atcttgcattg ttacagattt cactgctccc 60
accagcttgg agacaacatg tggttcttga caactctgct cctttgggtt ccagttgatg 120
ggcaagtggg caccacaaag gcagtgatca ctttgcagcc tccatgggtc agcgtgttcc 180
aagaggaaac cgtaaccttg cactgtgagg tgctccatct gcctgggagc agctctacac 240
agtggtttct caatggcaca gccactcaga cctcgacccc cagctacaga atcacctctg 300
ccagtgtcaa tgacagtggg gaatacaggt gccagagagg tctctcaggg cgaagtgacc 360
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cggaaggaga acctctggcc ttgaggtgtc atgcgtggaa ggataagctg gtgtacaatg 480
tgctttacta tcgaaatggc aaagccttta agtttttcca ctggaattct aacctcacca 540
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tctatctggc agtgggaata atgtttttag tgaacactgt tctctgggtg acaatacgtg 1020
aagaactgaa aagaaagaaa aagtgggratt tagaaatctc tttggattct ggtcatgaga 1080
agaaggtaat ttccagcctt caagaagaca gacatttaga agaagagctg aaatgtcagg 1140
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agcactgcgt acaaacatcc aaaagttcaa caacaccaga actgtgtgtc tcatgggtatg 1320
taactcttaa agcaataaaa tgaactgact tcaactggga aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa
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<210> 1496

<211> 1484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<400> 1496

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waatgtttga gagcgtgac tctacagcca caagatctgg ccaggatctc tgggctgaaa 120
tttgttctct tctgccaaat cctgaacaag aagatgggtg caacaatgca ttctcagact 180
cctttgttga ttcttgcctt gaaggtgaag gccagaggga ggtggctgac tttgctgtcc 240
agccagctgt aaagccttgg gctcccttgc aggattcaga agtgtattta gcatctctag 300
agaagaagct aagaagaatc aaaggtttaa atcaggaagt gacttccaag gacatgcttc 360
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cagagttctt tgtggatgga cttgattctg atgagagcac cttnggaaca tttcaagagg 480
tggctccagc cagataaagt agccgtcagc acagaggagg tccagtatct gattcctcca 540
gagtcacagg ttgagaagcc agtggccgag gacgagccag cagccgggga caagccagca 600
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931

```

gcagcagaac agtaaattac acacacacac acacacacac acacgccgag cagctgtctc 660
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aaaaacccaa atttcactc cacaaagaaa acagctgcaa gccccaggg acttacctgg 780
ggctggcatg tgtgactgtc tcggatgaag tgactgaccc agtgcacact ggatcaaaat 840
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cccttggtga attgtcacgt gagtggggcc agtaagagtg aagtctgtct cttgaatcca 1080
agcccatctt ggggcttctc taacaaatct gtagtaagta tacggactcc agggagagag 1140
gctgggcttc tytctctcat ttgttccttg tggaacaaat gggcaaaaaga agtgtgaaaa 1200
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tttgacacta ctccctggata gttccaaaca tcttccttgg ggcagggttc ctggctgagc 1380
ccgagcttcc ctccctgttt attgtgttca tgatcagtat gtgtttccat ataaaacttt 1440
tctcaacgga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 1484

```

<210> 1497

<211> 2192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2190)

<223> n equals a,t,g, or c

<400> 1497

```

gccccgatttc ctccgggcta caggcgacag agctgagcca agcgtttact gggcagctgt 60
tacgctcaga ttccaaatga aaatgtttga gagcgctgac tctacagcca caagatcttg 120
ccaggatctc tgggctgaaa tttgttcctg tctgccaaat cctgaacaag aagatggtgc 180
caacaatgca ttctcagact cctttgtgga ttcttgccct gaagggtgaag gccagaggga 240
gggtggctgac tttgctgtcc agccagctgt aaagccttgg gctcccttgc aggattcaga 300
agtgtattta gcatctctag ccattttatt ttaaaaatat ttcttgactt cggatgtggc 360
ttgagctgta ggcgcggagg gccggagacg ctgcagaccc gcgaccgga gcagctcgga 420
ggcgggtgaat aatagctctt caagtctgca ataaaaaatg gcctccaaca aaactacatt 480
gcaaaaaatg ggaaaaaaac agaattgaaa gagtaaaaaa gttgaagagg cagagcctga 540
agaatttgtc gtggaaaaaa tactagatcg acgtgtagtg aatgggaaag tggaaatatt 600
cctgaagtgg aagggattta cagatgctga caatacttgg gaacctgaag aaaatttaga 660
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agacttggtg ctggcgaaaag aggc aaatat gaagtgtcct caaattgtaa ttgcttttta 960
tgaagagaga ctaacttggc attcttgtcc agaagatgaa gctcaataat tgttcacatt 1020
gttcttttat atatatatt atatatatat aaaaattggg tcttagattt tgatttacta 1080
gtgtgacaaa ataactacat cctaattgaa atcaagtttg atatgtttgt tttgaaagta 1140

```

932

```

gcgttggaag agttgttggg ggttttttgc atccatagca ctggttactt tgaacaaata 1200
aataaaaagct ttctgtagtt gcttccttta tcagaaaaga acatttgata ccatgggtata 1260
tcatttctctc ttcatataag aacagctttt ctaaagtgtg ggggaaatgt ccatagtcac 1320
tactcagtca aaacttgtgt tctcatgagc ctaaggacca ttctagattt attacgtgtt 1380
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tgtttttaag cattcaccca aacaaaaaaaa tcacaggtaa acccatgttt ctgagatgcc 1500
attattccaa gcaaaataag agataatccc ttcaagttaa attgaaaatt ttcttgaaac 1560
catacatttc aagtgaata agtaattcta gataggacaa tttaaattgg ataattttta 1620
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ttacccaat tcattacatg gaggtcaat cttgagtttg ctttactggt tcagcaaaag 2040
ccaggaagaa caactttgta gtaatacaaa tgttatccaa ctgtatatg tttactttat 2100
tgtaataact ggtgaacagt ggttaataaa tagttttata ttcttttatg caaaaaaaaa 2160
aaaaaaaaaa cctnngggggg ggccccggan cc 2192

```

<210> 1498

<211> 685

<212> DNA

<213> Homo sapiens

<400> 1498

```

gggaaagctg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc caccgcgtccg 60
gtaaaaagtg actgaggaca caagcagtgt tctgcgttcc ccgatgcccg gagtgggtgg 120
ggccgtctct gtcaagcctg gagacgcggt agcagaaggt caagaaattt gtgtgattga 180
agccatgaaa atgcagaata gtatgacagc tgggaaaact ggcacggtga aatctgtgca 240
ctgtcaagct ggagacacag ttggagaagg ggaatctgtc gtggagctgg aatgaaggat 300
ttataacctt tcagtcacat cccaatttaa ttagccattt gcatgatgct ttcacacaca 360
attgattcaa gcattataca ggaacacccc tgtgcagcta cgtttacgct gtcattttat 420
ccacagagtc aagaccaata ttctgcaaaa aaatcaccaa tggaaatttt cattgatata 480
aatacttgta catatgattt gtacttctgc tgtgagattc ctagtgttca aaattaaatc 540
aataaaaact agcatttgct taaatattag tttgcccttt ctttgaatga agacaatgta 600
cacataggcg accaggtctg ccagtagact accagcattt ctttgtgatc cttttaagag 660
attgatataa atgtcagtca gttct 685

```

<210> 1499

<211> 1049

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1046)

933

<223> n equals a,t,g, or c

<400> 1499

```

gctgagggat ttcatacaaca ctagactggg cccataagaa acgyttaagg gagtactttg 60
gtcagaaaga aacagacatt aatgagcaac aaagaatcat ctaaaggtaa aaaactcact 120
gttaagagta agtacacaga aaaacccaaa gtgtgataac attgtaactg tgggtgtgtaa 180
gtagaaagaa taaatgataa accaatcaaaa aatagtaact acaacttttc aagaccagtc 240
agaaaaataa gataaaatta gaaacaacaa aaagttaaaa agtgggggga tgaagttaag 300
atgtagagtt tttattagtt ttttgtttgt taatgcaaac agtgttacca gggtaaaata 360
atgggttaca aaatagtatt tgtaatcctt atggtaacct caaacctaaa aacatacact 420
ggatacataa aaaataaaaa gcaaaaacct aaatcatatc accagagcaa actaccttcc 480
ctaaaggaag acaggaagaa aagaaagaag aagaccmcaa amcaaccaga aaacaaataa 540
atwacaaggc aggagtaagt ctttacttat cgataataca ttgaatggma atatggacta 600
aactctccaa tcaaaagaca tagactggct gaatgaatgg agaaaacaag acccattgat 660
ctgttgccca caagaaacac acttaaacta taaagacaca cataggctga aagtaaagag 720
ttggaaagag ttattccatg ccaatggaaa ccaggaaaaa gagaaggagt attgattttg 780
atacaaaaac tatgagacaa ataaagtcac tatacaatga waaaggggtt aatatggttt 840
ccatttgtgc cccacccaaa tttcgtgttc tattgtaatc ctcaatgttg gaggtggggc 900
ctgggtgggac gtgattggat catgggggtg gatctttcat gactaattca gcaccatctt 960
cttagtgctg ttctcatgat agtgagtcct ctgaatctgg ttgcctaaag tgtgtagccc 1020
tctccanacc acccgcttgc cttggnca 1049

```

<210> 1500

<211> 1018

<212> DNA

<213> Homo sapiens

<400> 1500

```

cgacagaagg gtacggctgc gagaagacga cagmaggggc tctctgccag cagccgtccg 60
gagccagcca acgagcggaa aatggcagac aatttttctgc tccatgatgc gttatctggg 120
tctggaaacc caaacctca aggatggcct ggcgcattgg ggaaccagcc tgctggggca 180
gggggctacc caggggcttc ctatcctggg gcctaccccg ggcaggcacc cccaggggct 240
tatectggac aggcaacctc aggcgcctac cmtggagcac ctggagctta tcccggagca 300
cctgcacctg gagtctaccc agggccaccc agcggccctg gggcctaccc atcttctgga 360
cagccaagtg ccmccggagc ctaccctgcc actggccctt atggcgcccc tgctggggca 420
ctgattgtgc cttataacct gcctttgcct gggggagtgg tgctctgcat gctgataaca 480
attctgggca cgggtgaagcc caatgcaaac agaattgctt tagatttcca aagaggggaat 540
gatgttgctt tccactttta cccacgcttc aatgagaaca acaggagagt cattgtttgc 600
aatacaaaagc tggataataa ctggggaagg gaagaaagac agtcggtttt cccatttgaa 660
agtgggaaac cattcaaaat acaagtactg gttgaacctg accacttcaa ggttgacagt 720
aatgatgctc acttggtgca gtacaatcat cgggttaaaa aactcaatga aatcagcaaa 780
ctgggaattt ctggtgacat agacctcacc agtgcttcat ataccatgat ataacttgaa 840
aggggcagat taaaaaaaaa aaaagaatct aaaccttaca tgtgtaaagg tttcatgttc 900
actgtgagtg aaaattttta cattcatcaa tatccctctt gtaagtcac tacttaataa 960
atattacagt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactcga 1018

```

<210> 1501

<211> 2031

<212> DNA

<213> Homo sapiens

934

<400> 1501

```

ccccgcgctc cgccccacgcg tccgccccacg cgtccggcgcg cagcggcctc gccgccccgctc 60
aagctgtcca catccctggc ctacgcccgc cacatcaccg tgacctgctt acgcccagat 120
tttcttcaat cacatctgaa taaatcactt gaagaaagct tatagcttca ttgcaccatg 180
tgtggcattt gggcgctgtt tggcagtgat gattgccttt ctgttcagtg tctgagtgtc 240
atgaagattg cacacagagg tccagatgca ttccgttttg agaatgtcaa tggatacacc 300
aactgctgct ttggatttca ccggttggcg gtagttgacc cgctgttttg aatgcagcca 360
attcgagtga agaaatatcc gtatttgtgg ctctgttaca atggtgaaat ctacaaccat 420
aagaagatgc aacagcattt tgaatttgaa taccagacca aagtggatgg tgagataatc 480
cttcactctt atgacaaagg aggaattgag caaacaattt gtatgttga tgggtgtgtt 540
gcatttgttt tactggatac tgccaataag aaagtgttcc tgggtagaga tacatatgga 600
gtcagacctt tgtttaaagc aatgacagaa gatgtatttt tggctgtatg ttcagaagct 660
aaaggctctt ttaactgaa gcactccgcg actccctttt taaaagtgga gcctttttct 720
cctggacact atgaagtttt ggatttaag ccaaattggc aagttgcatc cgtggaaaatg 780
gttaaatatc atcactgtcg ggatgaaccc ctgcacgcc tctatgacaa tgtggagaaa 840
ctctttccag gttttgagat agaaactgtg aagaacaacc tcaggatcct ttttaataat 900
gctgtaaaga aacgtttgat gacagacaga aggattggct gccttttatc agggggcttg 960
gactccagct tgggtgtctg cactctgttg aagcagctga aagaagccca agtacagtat 1020
cctctccaga catttgcaat tggcatggaa gacagcccg atttactggc tggtagaaag 1080
gtggcagatc atattggaag tgaacattat gaagtccttt ttaactctga ggaaggcatt 1140
caggctctgg atgaagtcat attttccttg gaaacttatg acattacaac agttcgtgct 1200
tcagtaggta tgtatttaat ttccaagtat attcggaga acacagatag cgtggtgatc 1260
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attctctggc gaccaaaga agccttcagt gatggaataa cttcagttaa gaattcctgg 1620
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taggtggtct ttatgctgta atgtgaaagc aaatatttct tcgtgttgga tggggactgt 1920
gggtagatag ggaacaatg agagtcaact caggctaact tgggtgtgaa aaaaataaaa 1980
gtcctaatac taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 2031

```

<210> 1502

<211> 1463

<212> DNA

<213> Homo sapiens

<400> 1502

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ggcgcggaaa gttggcctcg cccctgccga cgtcgcaggc tggagctcac ctgggagact 60
ccaagtggaa gccgagctcg gttctgcctc tccaggcaac gcgggaggcc cagcgggaag 120
gcaggaggcg gcggcgagg aggagctcta ctgagccgca actgtggcga cagcaaccgg 180
agtcgcagcc gccgccacct gcacctggcg cctagcccac gtccagcgcc tgcccggccg 240
ccgcttcccg ccacctgcc ctgcccaccc gccaggtaact accattaaag ataccttctt 300
ctcagcaaat ctatgataaa aaatataagt aacagaagaa gaaataactg ttatttgtca 360
agtgacaagc ttttaatgtc agaatggctc acctaaagcg actagtaaaa ttacacatta 420
aaagacatta ccataaaaag ttctggaagc ttggtgcagt aatttttttc ttataatag 480
ttttggtttt aatgcaaaga gaagtaagtg ktcaatatcc caaagaggaa tcaaggatgg 540

```

935

```

aaaggamcat gaaaaacaaa aacaagatgt tggatttaat gctagaagct gtaaacaata 600
ttaaggatgc catgccaaaa atgcaaataag gagcacctgt caggcaaaac attgatgctg 660
gtgagagacc ttgtttgcaa ggatattata cagcagcaga attgaagcct gtccttgacc 720
gtccacctca ggattcaaat gcacctggtg cttctggtaa agcattcaag acaaccaatt 780
taagtgttga agagcaaaaag gaaaaggaac gtggggaagc taaacactgc tttaatgttt 840
cgcaagtgac aggattttctt tgcaccgaga tcttggacca gacactcgac ctctgaatg 900
tattgaacaa aaattttaagc gctgccctcc cctgccacc accagtgtca taatagtttt 960
tcataatgaa gcgtggtcca cgttgcttag aactgtccac agtgtgctct attcttcacc 1020
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tgataaacta gatgaatatg taaaacaatt ttctatagta aaaatagtca gacaaagaga 1140
aagaaaaggt ctgatcactg ctcrgttgct aggagcaaca gtcgcaacag ctgaaacgct 1200
cacatTTTTA gatgctcact gtgagtgttt ctatggttgg ctagaacctc tgttggccag 1260
aatagctgag aactacacgg ctgtcgtaag tccagatatt gcatccatag atctgaacac 1320
gtttgaattc aacaaacctt ctcccttatgg gaagtaacca taaccgtggg aaattttgac 1380
tgggagtctt tcattttggst ggggagtcgc ttccygatca tgaggaggca aggaggggaag 1440
rtgaacctac ccattttaaac acc                                     1463

```

<210> 1503

<211> 570

<212> DNA

<213> Homo sapiens

<400> 1503

```

tgcaaaaatt acagctggtg cctgtaatcc ccgctactcg ggaggctgac acaggagaat 60
tgcttgaacc tgggagggtgg aggtttcagt gagctgagat cgtggcattg cactctagcc 120
tgggcaaccm agagtgaaac tgtctcaaaa aacaactttt atcaatgtct gcaaaaagaa 180
agtcttcttg gatttataga tcaatttagg gagaaatgac attttaacaa ttctgagttt 240
tccaattgtt gaacatggtg tactgcccc tttatttaga tctgttaatt tctctcagtt 300
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gtaagggttt caaaaagctg ttttctagtt attgctagta tatagaaatg cattagactt 420
gtacattgat cttgtatcaa gcaacttaga tcagttaact tattctagta gcttttttct 480
agattcttta gcatTTTcta tgtagataat catgtcatct gtgaataaag tattttactt 540
ttccaattta aaaaaaaaaa aaaaaaactc                                     570

```

<210> 1504

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

936

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 1504

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cgcgtcgact tttttttttt tntgcttttg aaaatcaact atcattttta ttacaatctt 60
aaacactttt gtttaaggga atccaatttt cctcttccaa gggcttcca aacatggaat 120
atgtaggttt tcatcataat ctcaatgttg tttatccaaa tgtatcacgt tatataaata 180
tgtagagggt tccagatgtc aagggcaggg tattaggttc aagtgtggct ggctctaacc 240
tctccactga actcctagag tgagatttaa gttttattta atctaacttt actaattcaa 300
cttagtcgtg taagaaggat atgaagaata tgaattattg tacttcacac tgctactttc 360
atgtacagta tagtagawta atactgacma cyatagacma gragttaaaa ttkgtcyrg 420
gaaaatycty cargatttta amcattgrca ttgccncgga gcggagaatt cagggcccgg 480
aaagnggggc nacttagg 498

```

<210> 1505

<211> 2061

<212> DNA

<213> Homo sapiens

<400> 1505

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gccggcaccg cagcagcccg aggagggcgc gggcrcgrgg cccgggtgcgt gcagcctgca 60
cctcagcgag cgcgcgcgact ggagtgactc gcagcgcgag ctggacgccg tcgaggtctt 120
cttctcgcgc acggcccggg acaaccggct cggtgcgtg ttcgtgcgtt gcgcgccctc 180
cagccgctac acgctgtctt tctcgcacgg caacgccgtg gacctgggcc agatgtgcag 240
cttctacatt ggcctcggct cccgcacaa ctgcaacatc ttctcctacg actactcggg 300
atacggcgtc agtcgggcaa gccctccgag aagaacctct acgccgacat cgacgccgcg 360
tggmagggcg tgcgcacccg gtatggcggt agtcccagaga acattatcct ctatggtcag 420
agcattggga ctgtcccccac ggtagacttg gcctcgaggt atgaatgcgc agggtaattc 480
tccattcccc tctgatgtct ggtttgcggt tggcttttcc ggataccagg aaaacatact 540
gctttgatgc tttccccagc attgacaaga tatctaaagt cacctctcct gtgttggtca 600
ttcatggtag agaggatgag gtcacgatt tctcccatgg cctagcgatg tacgagcgct 660
gtccccgagc cgtggagccc ctttggkttg aaggggctgg gcataatgac atagagcttt 720
atgcacaata cctagaaaga ctaaacagct tcatatctca cgaacttcct aattcctgaa 780
gacaacaact tgatcttacc tcatttactg tgaacagaag agtcctctgt tttgcacatg 840
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tctgggttgg ttaacaaaga gcctagctga ctttctctct gtaaagtcct ccttgtaggc 1500
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```


937

```

tgattttcttt  tgtcaggcta  caacaatgaa  ctgcagattc  cttgttttga  atgtaaata  1620
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atttccaaga  caaaaattcc  aagtttatgc  tttgaagaat  ttatgtaatt  aaaatttcac  1740
taaactaatc  ttttttagtt  aggaattatt  tgggttttga  cactggaagt  tgcgccaaat  1800
aagcatcaga  aataggagat  gcttaacatt  gctatactac  ttgtgttggt  taggggtttg  1860
gattttggggg  ttctttgggt  ttaatttttt  tttccacatt  taaaagcctt  aaatgtactg  1920
taagcctcag  atcgttgtac  aactggactg  cggttgattg  ccagtttgtg  tactgttgct  1980
tggatgcggc  acagtgggtg  gtaatggaat  aaaggatgca  tggatcagaa  aaaaaaaaaa  2040
aaaaaaaaaa  aaaaaaaaaa  a  2061

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<210> 1506

<211> 2396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 1506

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acagaattat  tttgggaggg  ttttctcagg  gaggagcttt  atctttatat  actgccctta  360
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938

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tgctgtaaca tgggaaagtg taaatgtttt tcatggtttc tatcaatgtg aaataaaatt 2340
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<210> 1507

<211> 1153

<212> DNA

<213> Homo sapiens

<220>

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<222> (495)

<223> n equals a,t,g, or c

<400> 1507

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gattttaacc gaggcacgga caacatcacc gtgagcaggg ggacacagcc atcctcaggt 180
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aatacagcct ccgaatccag aagggtgatg tctatgatga gggttcctac acttgctcag 360
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gcaaatatga gtgcaaagct gccaacgagg tctcctcggc ggatgtcaaa caagtcaagg 660
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<211> 652

<212> DNA